PROJECT 10073 RECORD CARD

1. DATE
29 Jul 62

2. LOCATION
Ocean Springs, Mississippi

3. DATE-TIME GROUP
Local _____
GMT 30/0520Z

4. TYPE OF OBSERVATION
☒ Ground-Visual ☐ Ground-Radar
☐ Air-Visual ☐ Air-Intercept Radar

5. PHOTOS
☐ Yes
☒ No

6. SOURCE
civilian

7. LENGTH OF OBSERVATION
10 minutes

8. NUMBER OF OBJECTS
one

9. COURSE
erratic

10. BRIEF SUMMARY OF SIGHTING

Diamond shaped, sometimes triangular in shape. Obj observed performing intricate maneuvers. Size of red painted T-29 nose at 1500 ft. No sound. Initial observation at estimated 2000 ft alt over tree about 300 ft high. Obj at 10 dgr above horizon. Azimuth 115 dgr. Obj disappeared at 8 dgr elev, 65 dgr azimuth. Appeared low at all times erratic motion including stationary position. Total observation 10 minutes.

11. COMMENTS

UNIDENTIFIED

12. CONCLUSIONS

- ☐ Was Balloon
- ☐ Probably Balloon
- ☐ Possibly Balloon
- ☐ Was Aircraft
- ☐ Probably Aircraft
- ☐ Possibly Aircraft
- ☐ Was Astronomical
- ☐ Probably Astronomical
- ☐ Possibly Astronomical
- ☐ Other UNIDENTIFIED
- ☐ Insufficient Data for Evaluation
- ☒ Unknown

ATIC FORM 329 (REV 26 SEP 52)

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
Air Weather Service (MATS)
Asheville, North Carolina

REPLY TO
ATTN OF: CCDPD

SUBJECT: Copies WBAN 31 - Keesler Vicinity 29 Aug 1962

TO: Aerospace Technical Intelligence Center
Attn: Sgt. Moody
Wright-Patterson AFB, Ohio

1. Reference: Your telephone call 0930 EST 28 Aug 1962.

2. We are sending photocopies of Adiabatic Charts (WBAN 31) for soundings taken at Burrwood, Louisiana on 29 through 31 July 1962. Burrwood is the closest station to Keesler AFB taking radiosonde observations.

FOR THE DIRECTOR

Pallas L. Tye, Jr.

PALLAS L. TYE, JR.
Captain, USAF
Administrative Officer

1 Atch
Photocopies

HEADQUARTERS
KEESLER TECHNICAL TRAINING CENTER (ATC)
UNITED STATES AIR FORCE
KEESLER AIR FORCE BASE, MISSISSIPPI

REPLY TO
ATTN OF: OP-S

23 AUG 1962

SUBJECT: Report of Unidentified Flying Object (UFO)

TO: AFSC (FTD)
Wright Patterson AFB, Ohio

1. The following information concerning the report of an unidentified flying object was reported by Mr. [redacted], c/o Ocean Springs Seafood Co., Ocean Springs, Mississippi, telephone [redacted] Reference paragraph 14, AFR 200-2, 20 July 1962.

a. Description of the object:

(1) Shape - Diamond, mostly round, sometimes rectangular.

(2) Size - Half dollar at arms length, the red painted nose of a T-29 (at approximately 1500 ft MSL, my estimate of the height of a T-29 flying over as I questioned Mr. [redacted]).

(3) Color - bright cherry red varying in intensity as it maneuvered.

(4) Number - one.

(5) Formation - N/A.

(6) Discernible Features - none.

(7) Tail, trail or exhaust - none.

(8) Sound - none.

(9) Performed intricate maneuvers.

b. Description of course of object:

(1) While in bed the observer was called by his daughter [redacted] (age 9), and neice, [redacted] (age 15) from their adjoining bedroom. [redacted] while lying on her bed looking through a window observed a large red diamond-shaped object (estimated distance 2,000 ft) moving slowly above the top of a tree measured 300 ft east of the house.

(2) Object was first observed 10° above the horizon just above the top of a tree. The tree is 300 ft from the house and 115° azimuth.

(3) Object disappeared about 8° above the horizon at 65° azimuth very close by another tree. This tree was 600 ft from the house.

(4) Object was moving very slowly from right to left at tree top level and sometimes appeared to be stationary. It appeared to be quite large and cast a red glow. As it continued to move from right to left, starting and stopping, increasing and decreasing in intensity, [redacted] observed that it was now round and as there was no sound she became alarmed and called to her cousin, [redacted] to look at the strange helicopter. She thought it must be a helicopter as it would stop perfectly still every little bit. [redacted] saw a large round red object when she looked thru the open bedroom window. Seeing the strange object and hearing no sound she also became alarmed and called to her uncle, [redacted], in the adjoining bedroom to look at the strange object. At this time the object began to make half loops very fast as it continued to move from right to left. It would go straight up move over a degree or so and come straight down to the same level that it had started, then repeat this many times. Then it began make square movements, moving from right to left. It would go straight up, stop for an instant, move left level, then stop for an instant, then go straight down to the same level that it began, stop just for a split second and then go left level and pause, then straight up again. It was moving in a square wave pattern. After moving 20° to 25° in azimuth it reversed and made the same square movement back to the starting point. It would go up, across, and down, in less than a second. As it accelerated and decelerated it would increase and decrease in brightness and change direction 90°. After returning to approximately the starting point it paused, then moved very fast level from 100° azimuth to 95° azimuth then back to 100° azimuth then back to 95° azimuth, then paused, all within one second. After this flash back and forth it continued to move to the left making square wave movements then reversing and repeating staying between 8° and 15° above the horizon. At this time it passed behind a pine tree, measured 600' from the house, and the red object could be seen thru the top of the tree. Since beginning the fast maneuvering, [redacted] and his wife, [redacted] had also watched the object. [redacted] stated that the object looked rectangular to him but tilted away from him. His wife said it was just a big round red light to her.

(5) When the object, moving to the left, came out from behind the tree it was lower on the horizon and suddenly just went out or disappeared as they became aware of the sound of engines of an airliner approaching from the west, which then passed overhead and droned on to the east. Before the sound of the engines faded a jet passed overhead from east to west. The object did not reappear.

(6) The object was visible for about ten minutes.

c. Manner of observation:

(1) Ground - visual, thru open window, window glass, and thru screen wire.

(2) Binoculars were used by [redacted] and the (rectangular almost on end) object just became more distinct and brighter.

(3) Observation was made from the ground.

d. Time and date of sighting:

(1) 0520Z, 30 July 1962 to about 0530Z 30 July 1962.

(2) Light condition - night, some stars visible.

e. Location of observers:

(1) 30°27' N 88° 51'W or four NM northeast of Keesler AFB, Miss. 1,000 ft from abandoned private sod airstrip.

f. Identifying information on observers:

(1) Civilian [redacted] wife, [redacted] age 35; daughter [redacted] age 9; Neice, [redacted] age 15. Mailing address - c/o Ocean Springs Seafood Co., Ocean Springs, Miss. Occupation - Salesman and truck driver. Reliability - All members of the family are very sincere, anxious for an explanation, and reliable in the eyes of neighbors as far as I can determine. They were awake at this hour because they had just returned from local church activities.

(2) N/A.

g. Weather and winds-aloft condition at time and place of sightings:

(1) Observers account - stars shining, very light wind.

(2) Report of winds from 8th Weather Detachment, Keesler AFB, Miss.

(a) Surface wind calm.

(b) Winds aloft light and variable, calm.

(3) Ceiling - none.

(4) Visibility - 12 miles.

(5) Amount of cloud cover - 8,000 scattered, high thin overcast.

(6) No thunderstorms.

(7) Temperature gradiant - 2° c per 1,000 ft, 28° c at the surface to 0° c at 14,000 ft.

h. None.

i. None.

j. No air traffic at Keesler AFB or Gulfport Municipal airport from several hours before sighting until the next morning.

k. Prepared by Capt Charles O. Williams 47026A, instructor in the SAGE, Weapons Controller Course, OBR1741B. I measured the distance to the trees mentioned and measured the angle of elevation to the top of the trees and the degrees in azimuth to the trees by compass. I asked Mr. [redacted] if he had seen anything like this before. He said: "Approximately 12 years ago my wife, [redacted] and I saw an orange object pass at a tremendous speed moving from north to south; and about February 1962 I saw two objects that looked like two moons side by side. I stopped the truck I was driving and observed them for approximately 30 seconds until they disappeared. This happened about 130 miles north of Biloxi, Miss."

I have not been able to determine any possible cause for this sighting. The moon had not yet risen. There were no baloons, search lights, or fireworks. There were no aircraft. There were no temperature inversions.

1. None.

FOR THE COMMANDER

Lester Bridges

LESTER BRIDGES
LtCol, USAF
Chief, Operations Services Div

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
Air Weather Service (MATS)
Asheville, North Carolina

REPLY TO
ATTN OF: CCDPD

SUBJECT: Copies MBAM 31 - Keesler Vicinity 29 Aug 1962

TO: Aerospace Technical Intelligence Center
Attn: Sgt. Moody
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1. Reference: Your telephone call 0930 MST 28 Aug 1962.

2. We are sending photocopies of Adiabatic Charts (MBAM 31) for soundings taken at Burrwood, Louisiana on 29 through 31 July 1962. Burrwood is the closest station to Keesler AFB taking radiosonde observations.

FOR THE DIRECTOR

Phillis L. Tyler, Jr.
PHILLIS L. TYLER, JR.
Captain, USAF
Administrative Officer

1 Atch
Photocopies

UFO Sighting of 20 July 1962 [redacted] Sighting)

30 January 1963

[redacted] Company
Ocean Springs, Mississippi

Dear Al,

I am writing from Wright-Patterson where the boys are trying to close up the 1962 UFO accounts. They would appreciate it very much if you could send them an account of the [redacted] sighting of 20 July 1962.

I believe you said you had talked to these people and had come to some pretty firm conclusion as to the cause of the sighting. If so, could you drop a line either to me or to Lt Col Robert Friend, FTD TD-E (UFO), WPAFB, Ohio, as close to the immediate future as possible. There is no point in carrying this sighting as unidentified if it is not.

I hope to see you in Las Cruces.

Cordially,

WB Form 610-14A (Revised 4-1-57) **WBAN-31A**

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Data Check	Type of Level	Level No.	PRESSURE Contact	PRESSURE Comb.	TEMPERATURE Ordinate	TEMPERATURE Ascent °C	RELATIVE HUMIDITY Ordinate	RELATIVE HUMIDITY Including Corr. of ± %	DEW POINT °C	Altitude of Significant Levels or Remarks
A	D	1		1018		26.3		77	24.3	3
		2	11.0	5[illegible]	67.3	17.5	82.2	78		1640
		3	21.[illegible]	783	63.5	13.9	78.6	73		
		4	36.0	696	59.2	2.6	42.5	47	-7.6	
		5	41.[illegible]	567	56.5	-1.7	76.[illegible]	78	-5.0	
		6	48.4	800	53.4	-6.4	51.0	56		
		7	53.[illegible]	858	51.0	-9.9	63.[illegible]	67	-14.9	
		8	56.[illegible]	833	49.4	-12.2	58.6	49	-20.7	
	D	9	59.[illegible]	4.9	46.7	-13.9	48.2	60	-21.9	7450
		10								
		11								
		12								
		13								
		14								
		15								

SURFACE OBSERVATION AT RELEASE

PRESSURE Station	PRESSURE Correction*	PRESSURE at Shelter	CONTACT Dial chart	CONTACT Sounding record
[illegible]	Mb	Mb		
[illegible]	0	[illegible]	[illegible]	[illegible]

*For difference in elevation between barometer and instrument shelter

TEMPERATURE Dry	TEMPERATURE Wet	RELATIVE HUMIDITY Water %	WIND Direction (degrees)	WIND Speed mph
20.3	[illegible]	79	140	3

CLOUDS AND WEATHER

Constant Pressure Blocks

30509	7647	-17.1
67731	55	-22.2
03510	7[illegible]	5
67250	-10.6	
61	X	
349	4	
1719		
50[illegible]	35[illegible]9	-6.0
56436	36	-13.7
08102	6	-3
5180	-2.9	
72	X	
75	1	
1446		
[illegible]	[illegible]	[illegible]
[illegible]	51	X
[illegible]	6	5
2460	-5.0	
61	X	
245	1	
1539		
70[illegible]	5[illegible]	[illegible]
05014	60	1.3
0[illegible]	17[illegible]	[illegible]
2640	11.9	
[illegible]	X	
175	3	
1100		
[illegible]	[illegible]	[illegible]
71	X	
[illegible]	4	
5[illegible]		
85526	15[illegible]	[illegible]
[illegible]	78	[illegible]
01836	178	4
1[illegible]		
[illegible]	[illegible]	[illegible]
71	X	
[illegible]	[illegible]	
[illegible]	[illegible]	
[illegible]	78	X
[illegible]	240	4
1[illegible]		
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
22[illegible]	4	
[illegible]	28[illegible]	
[illegible]	[illegible]	
24[illegible]	[illegible]	

PUNCHED CARD No. 4

BASELINE CHECK READINGS

Time GCT	TEMPERATURE Ordinate	TEMPERATURE Dry	TEMPERATURE Wet
1940	72 8	[illegible]	25.4

RELATIVE HUMIDITY Ordinate	Rsonde %	Corr %	Psychrometer Ice	Psychrometer Water
81.7	68	13		65

CODED MESSAGE FOR TRANSMISSION

PUNCHED CARD No. 3

332	11053	72731	02308	25526
17447	01806	70038	08014	01707
30905	56436	00106	30509	67731
03510	30456	22881	05314	25[illegible]
05014	00913	20[illegible]	07115	[illegible]
15[illegible]	19002	20112	10512	22[illegible]
08107				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REMARKS

PUNCHED CARD No. 2

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
DDmh	Altitude (gpm)	Temperature (°C)
$TT_dT_dT_x$	Relative Humidity (%)	Dew Point (°C)
DddH	Direction (degrees)	Wind Speed (mps)

LEGEND FOR PLOTTED CURVES

PA — Pressure - Altitude (geopotential meters)
T — Temperature (°C) RH — Relative Humidity (%)

Drawn by R. [illegible]

Verified by J. A. S. M. S.

Inspected by

PUNCHED CARD No. 1

DATE AND RELEASE TIME

	Year	Month	Day	Hour
940 Release	1962	JUL	29	06
[illegible]	1962	JUL	29	11 02

Radiosonde No. [illegible] Observer [illegible]

Station
BURRWOOD, LOUISIANA

28° 58' N 89° 23' W
Lat. Long.

Surface Prepared by the Coast and Geodetic Survey Washington D.C. 1957

W B Form 610-14A (Revised 4-1-57) **WBAN-31A**

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Code ID	Type of Level	Level No.	PRESSURE Correct mb	PRESSURE Obs mb	TEMPERATURE Ordinate	TEMPERATURE Ascent °C	REL. HUM. Ordinate	REL. HUM. Including Corr. of ±__ %	DEW POINT °C	Altitude of Significant Levels or Remarks
66	D	1		1018		26.3		79	24.3	3
	D	2	1000	1000	67.3	19.6	83.2	78		1640
		3	921	920	69.5	13.9	78.6	73		
11		4	860	858	53.2	2.6	40.5	47	-7.6	
22		5	811	809	56.5	-1.7	76.0	78	-5.0	
		6	748	746	53.4	-6.1	51.0	56		
33		7	698	696	51.0	-9.9	63.0	67	-14.9	
44		8	646	644	49.4	-13.8	53.0	49	-20.7	
55	D	9	596	594	46.7	-15.9	48.2	60	-21.9	7450
		10								
		11								
		12								
		13								
		14								
		15								

SURFACE OBSERVATION AT RELEASE

PRESSURE Station mb	PRESSURE Correction mb	PRESSURE at Shelter mb	CONTACT Dial chart	CONTACT Remarks
1017.9	0	1017.9		

*For difference in elevation between barometer and instrument shelter

TEMPERATURE Dry °F	TEMPERATURE Wet °F	RELATIVE HUMIDITY Water %	WIND Direction degrees	WIND Speed mps
76.3	71.4	79	210	3

CLOUDS AND WEATHER

1CB 7CU

Constant Pressure Blocks

40309	7647	-17.1
67731	554	-22.3
02510	7445	5
67250	-10.6	
61	X	
348	4	
50494	3529	-6.0
56436	36	-13.7
00102	6	3
51800	-2.9	
72	X	
75	1	
26400	11.8	
68	X	
175	3	
11200		
71054	15.0	
75	X	
162	4	
85520	15.6	12.9
77457	78	11.4
01828	178	4
15941	21.2	
71	X	
173	3	
12600	24.1	
79	X	
210	4	
11052	16.3	27.3
27705	79	23.3
02508	224	4
14100	28.3	
79	24.3	
244	5	

PUNCHED CARD No. 4

BASELINE CHECK READINGS

Time GCT	TEMPERATURE Ordinate	Dry	Wet
1040	73.8	76.0	25.0 °C

RELATIVE HUMIDITY Ordinate	Reob %	Corr %	Psychrometer Asc
59.7	68	83	Water 6C

CODED MESSAGE FOR TRANSMISSION

```
72222 11053 72731 02308 25520
17707 01808 70038 08014 01707
50505 50136 05106 40509 67731
03520 30106 72881 03314 25605
09999 00513 20012 10411 22207
16773 19500 20012 10411 22207
08817
```

REMARKS

PUNCHED CARD No. 3

PUNCHED CARD No. 2

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
DDMA	Altitude (gpm)	Temperature (°C)
$TTT_dT_dT_d$	Relative Humidity (%)	Dew Point (°C)
DddFf	Direction (degrees)	Wind Speed (mps)

LEGEND FOR PLOTTED CURVES

PA — Pressure - Altitude (Approximate Heights)
T — Temperature (°C) RH — Relative Humidity (%)

Drawn by R. S. [illegible]

Verified by S. A. Sims

Inspected by

PUNCHED CARD No. 1

DATE AND RELEASE TIME

	Year	Month	Day	Time
Release	1962	JUL	29	0[illegible]
Recd	1962	JUL	29	1[illegible]

Radiosonde No. [illegible] Anemometer No. [illegible]

Station
BURRWOOD, LOUISIANA

28° 58' N 89° 23' W
Lat. Long.

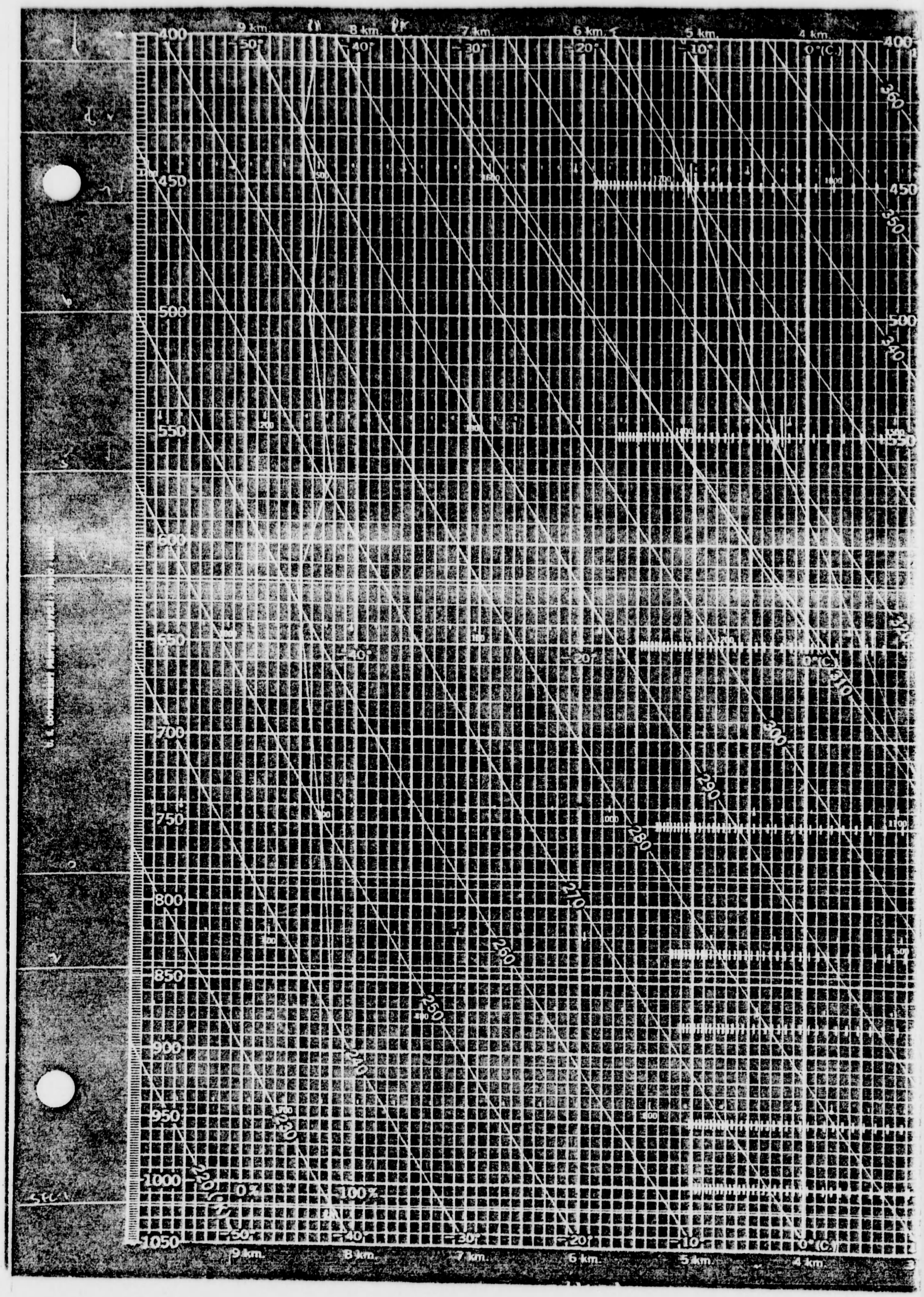
Prepared by the Coast and Geodetic Survey
Washington D.C. 1957

Surface

m 2 km 1 km MSL

500 550 600 650 700 750 800 850 900 950 1000 1050

10 20 30 40



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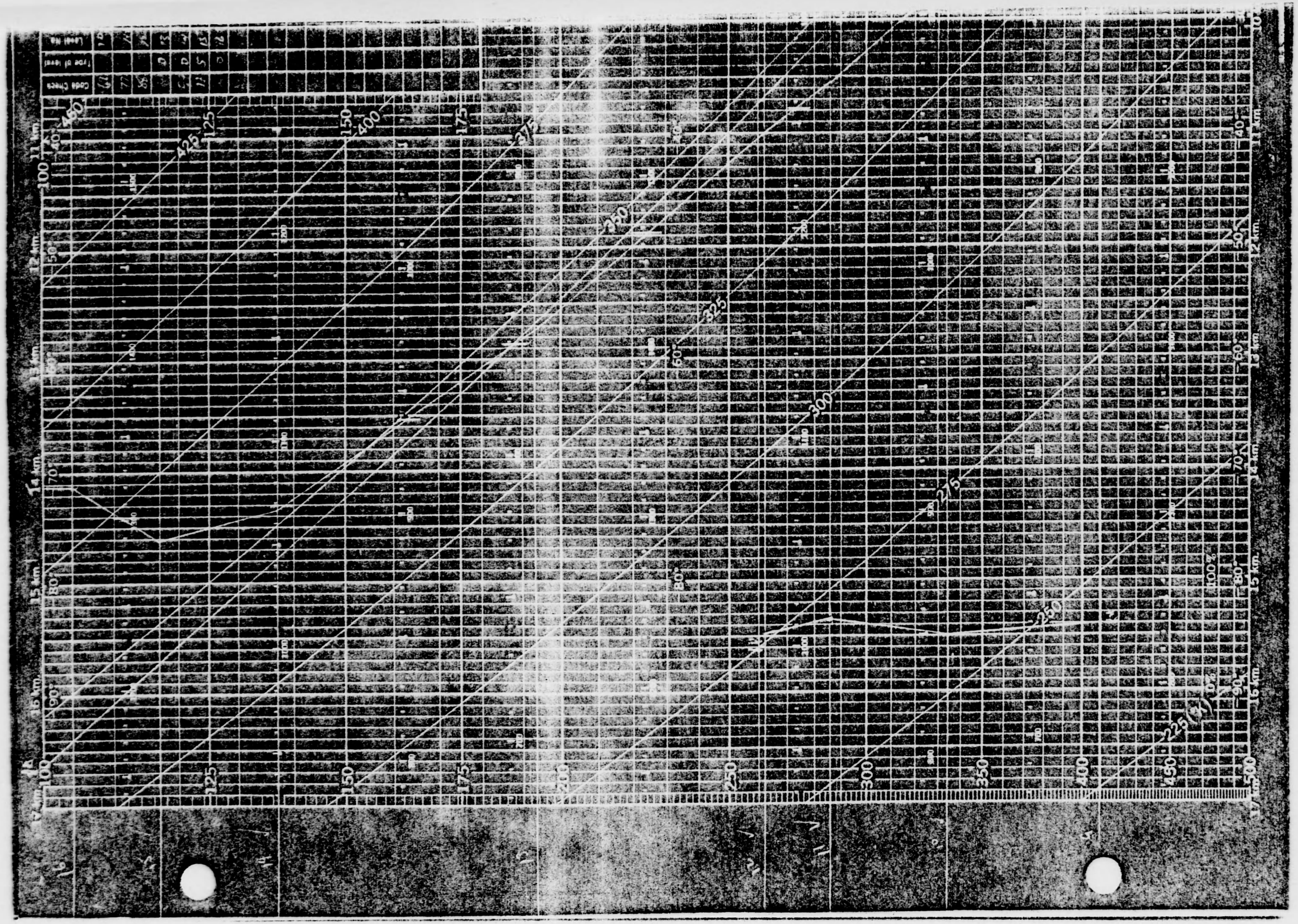
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WBAN-31B

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK -B

PRESSURE		TEMPERATURE				REL. HUM.		DEW POINT	Altitude of Significant levels, or Remarks
ontact	mb	Ordinate	°C	Correction	Corrected	Ordinate	Including Corr. of °C	°C	
9	753	39.0	26.2			1.7	.52	35.2	
7	746	32	3.5			27	67	-39.7	
3	262	28.8	10.2			14.3	52	-4.1	
3	0.3	27.3	-5.7						32680
1	1.7	9.5	-22.4						15780
0	1.7	6.5	-22.3						15720
0	10.5	16.4	-7.2						16400

Constant Pressure Blocks

10	16.6	-7.2
7		
0	7.1	.8

1302		
15	12	-7.5
20		.9

1554		
15	6.3	-6.2
19		
0	5.7	.6

1541		
30		-2.5
34		.4

1516		
20	2.5	-2.7
0	2.5	.2

1457		
25	1.9	-2.7
0	1.7	.2

1357		
30	12.6	-3.3
34	6.0	-3.2
0	3.2	.3

1307		
50	2.4	
54		
0	2.1	.3

PUNCHED CARD No. 5

PUNCHED CARD No. 6

Solar Radiation Correctors for Raob Temperatures

1. Time, LST, at termination if between 300 and 150 mb, or at 150 mb, if terminating pressure 150 mb, or less	
2. Time, LST, at 50 mb, if reached	
3. Time, LST, at 20 mb, if reached	
4. Correction for TST	
5. Time, TST, algebraic sum of (1b & 4)	
6. Time, TST, algebraic sum of (2) & (4)	
7. Time, TST, algebraic sum of (3) & (4)	
8. Difference between (5) and Solar Noon	
9. Difference between (6) and Solar Noon	
10. Difference between (7) and Solar Noon	
11. Elevation angle of Sun for (8)	
12. Elevation angle of Sun for (9)	
13. Elevation angle of Sun for (10)	
14. a. Elapsed time from 150 to 50 mb, or to termination if between these levels	
b. Elapsed time from 50 to ___ mb	
c. Elapsed time from ___ to ___ mb	
d. Elapsed time from ___ to ___ mb	
e. Elapsed time from ___ to ___ mb	
15. Ascension rate corresponding to (14a)	
(14b)	
(14c)	
(14d)	
(14e)	

CODED MESSAGE FOR TRANSMISSION

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
DODdh	Altitude (gpm)	Temperature (°C)
TTTdTdTd	*Relative Humidity (%)	*Dew Point (°C)
Ddd/ff	Direction (degrees) and	Speed (mps)

*Omitted Above 200 mb

LEGEND FOR PLOTTED CURVES

PA—Pressure Altitude (Superimposed Isopleths)

T—Temperature (°C) RH—Relative Humidity (%)

Drawn by

Verified by

Inspected by

DATE AND RELEASE TIME

90 th Mer.	1962	JUL	29	23 Z
EST	1962	JUL	29	7 p.m.

Radiosonde No. Ascension No.

Station
BURRWOOD, LOUISIANA

28° 58' N Lat. 89° 23' W Long.

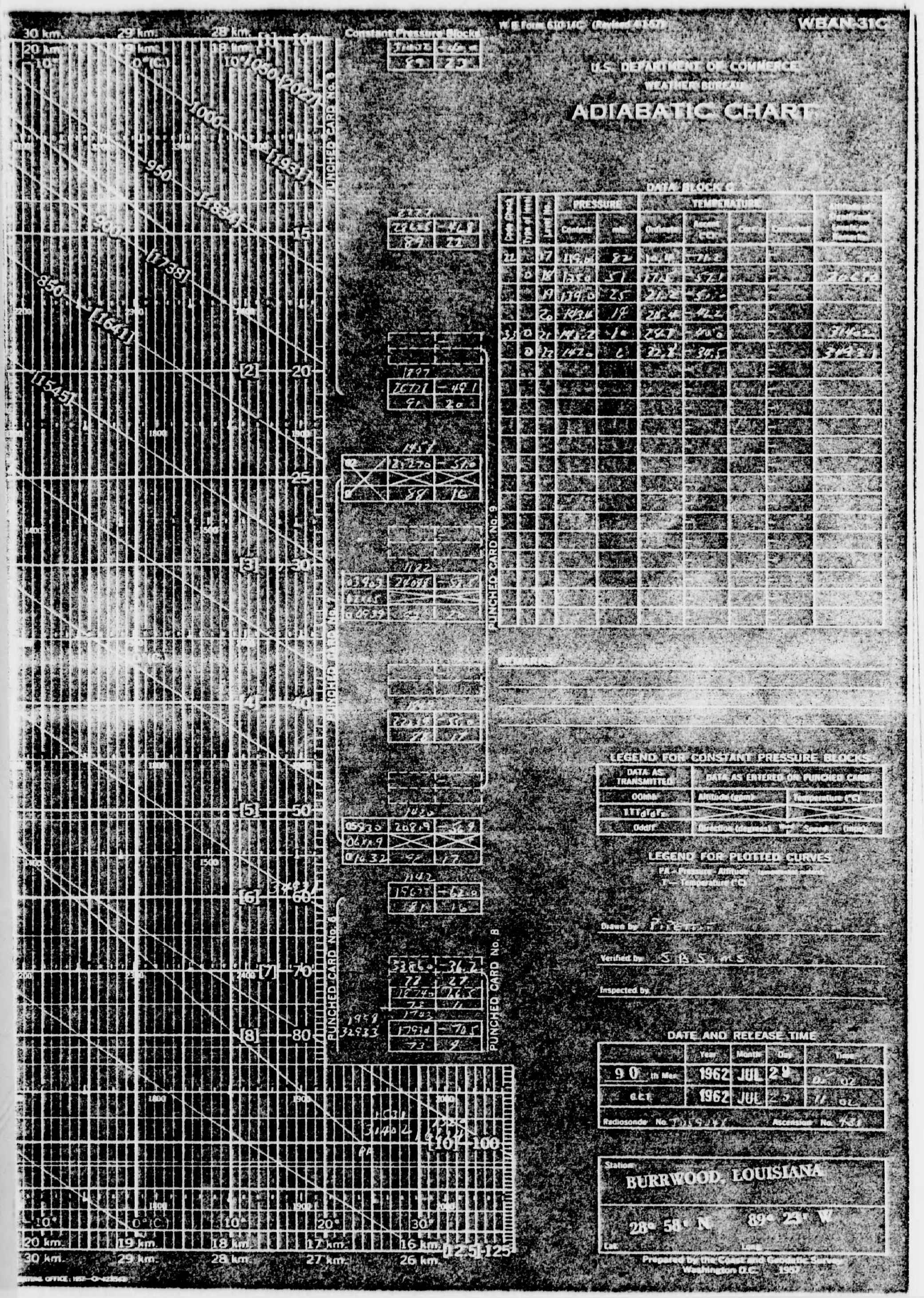
Prepared by the Coast and Geodetic Survey
Washington, D.C. 1957

PUNCHED CARD No. 4

300 250 200 150 100 50 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000 1050 1100 1150 1200 1250 1300 1350 1400 1450 1500

20 10 0 10 20 °C

9 km. 8 km. 7 km. 6 km. 5 km.


W.B. Form 610 UC (Revised 4-1-57)
WBAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK
PRESSURE
TEMPERATURE
Constant Pressure Blocks
PUNCHED CARD No. 6
PUNCHED CARD No. 8
PUNCHED CARD No. 9
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
LEGEND FOR PLOTTED CURVES
Drawn by
Verified by
Inspected by
DATE AND RELEASE TIME
Year
Month
Day
Time
Radiosonde No.
Ascension No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89° 24' W
Lat.
Long.
Prepared by the Climatic Center
Washington D.C.
1962
30 km.
29 km.
28 km.
27 km.
26 km.
20 km.
19 km.
18 km.
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16 km.
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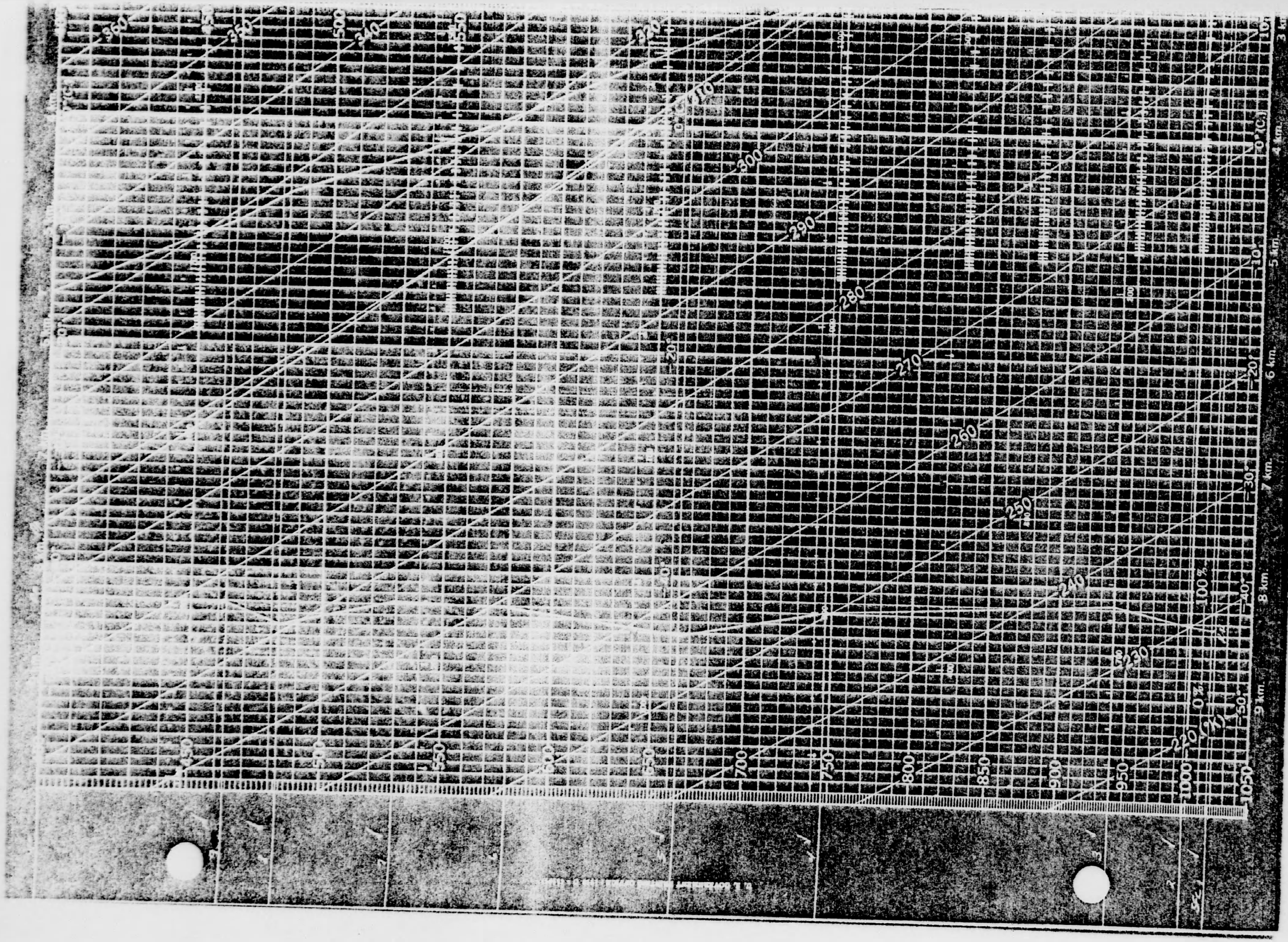
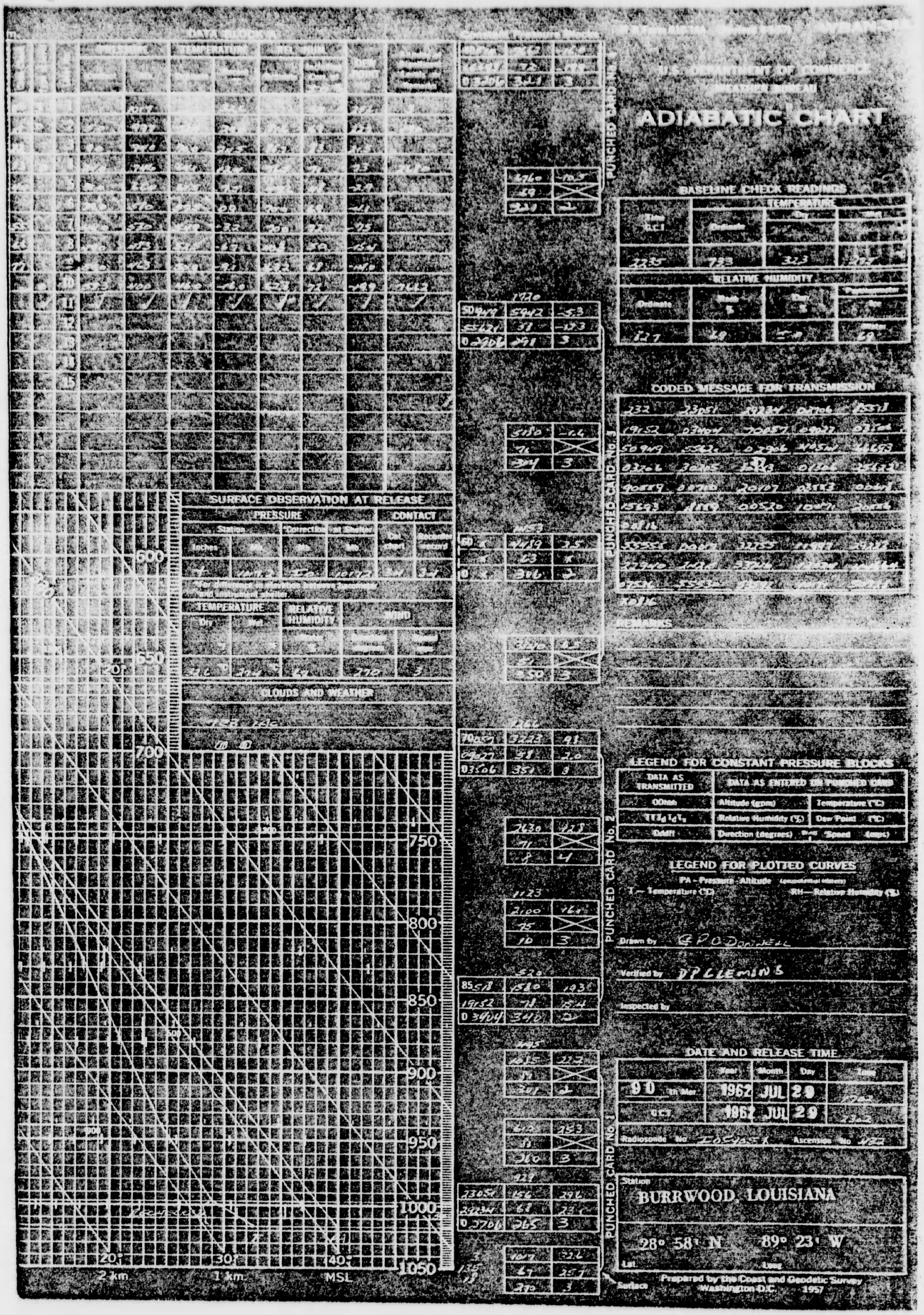
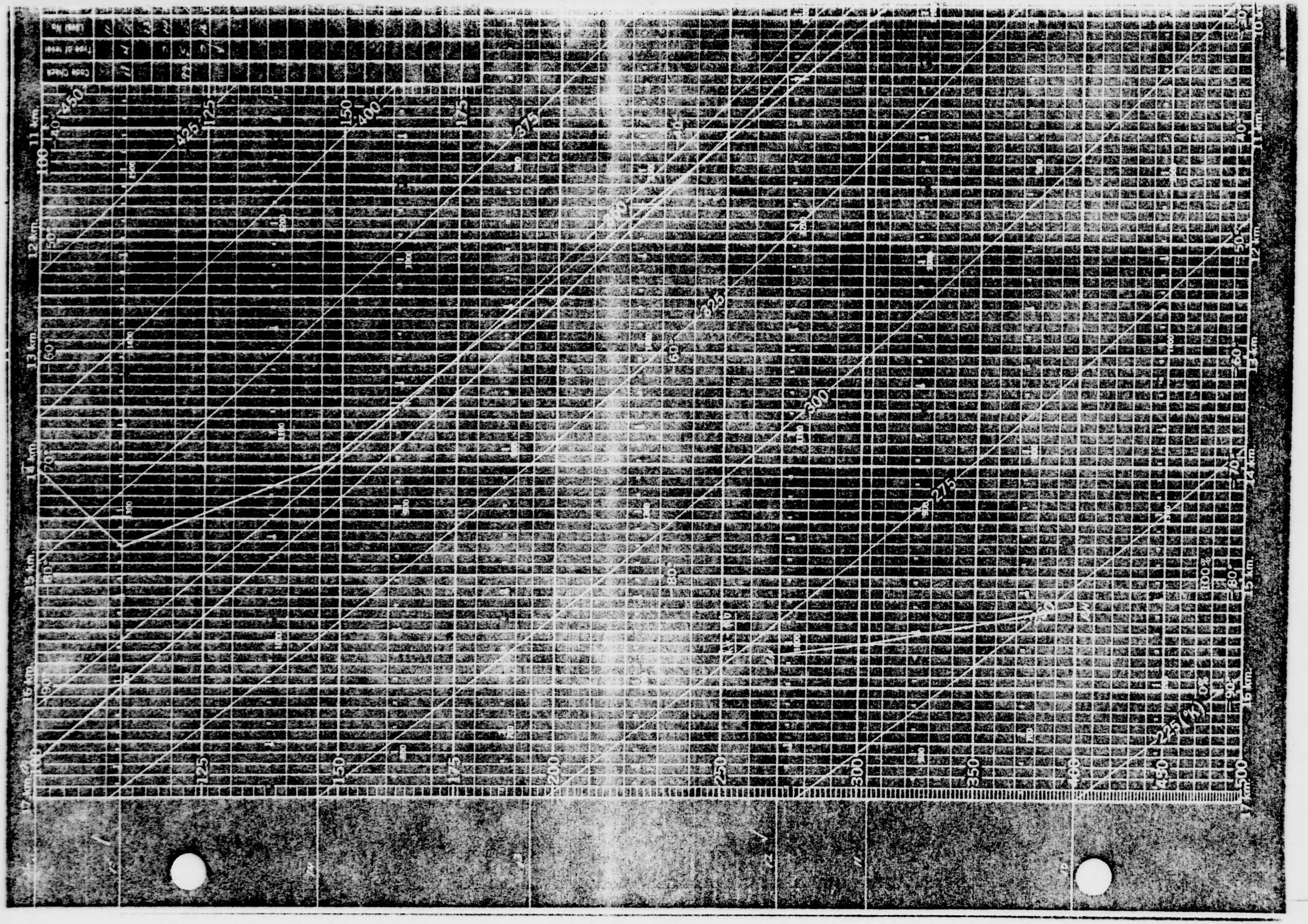



U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
BASELINE CHECK READINGS
TEMPERATURE
RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
REMARKS
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
WIND
CLOUDS AND WEATHER
600
650
700
750
800
850
900
950
1000
1050
20
30
40
50
2 km
1 km
MSL
PUNCHED CARD No. 2
PUNCHED CARD No. 1
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
Altitude (gpm)
Temperature (°C)
Relative Humidity (%)
Dew Point (°C)
Direction (degrees)
Speed (knots)
LEGEND FOR PLOTTED CURVES
PA – Pressure Altitude
T – Temperature (°C)
RH – Relative Humidity (%)
Drawn by G P O DONNELL
Verified by J P CLEMINS
Inspected by
DATE AND RELEASE TIME
Year
Month
Day
Time
90th Mer.
1962
JUL
29
GCT
1962
JUL
29
Radiosonde No.
Ascension No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat.
Long.
Surface
Prepared by the Coast and Geodetic Survey
Washington, D.C.
1957



WBAN-31B

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK B

PRESSURE		TEMPERATURE				REL HUM		DEW POINT °C	Altitude of significant levels or Remarks
mand	mb	Ordinate	Ascent °C	Correction	Corrected	Ordinate	Inclination Corr. of ±0 %		
0	1004	351	-2.7			120	+0	-39.0	
A	970	347	-3.5			50	+0	-47.1	1051.0
B	764	114	-5.0						
C	696	102	-7.2						14470
D	612	71	-11.5						16010
E	508	104	-20.6						16675
F	/	/	/			/	/		/

Constant Pressure Blocks

10[illegible]	16675	-20.6
20[illegible]		
0[illegible]16	81	8

1296

15378	-24.6
58	8

1054

15693	14306	-65.9
13159		
0 0520	54	10

9441

13364	-60.6
40	10

20[illegible]	[illegible]	[illegible]
[illegible]		
0 [illegible]	[illegible]	[illegible]

25[illegible]	11039	-[illegible]
40559		
0 0710	69	5

2170

30 205	9969	-33.3
10153	39	-39.1
0 1306	133	3

1[illegible]

1455	-22.7
51	
08[illegible]	5

PUNCHED CARD No. 6

Solar Radiation Corrections for Raob Temperatures

1. Time, LST, at termination if between 399 and 151 mb., or at 150 mb. if termination pressure 150 mb. or less	
2. Time, LST, at 80 mb., if reached	
3. Time, LST, at 20 mb. if reached	
4. Correction for TST	
5. Time, TST, algebraic sum of (1) & (4)	
6. Time, TST, algebraic sum of (2) & (4)	
7. Time, TST, algebraic sum of (3) & (4)	
8. Difference between (5) and Solar Noon	
9. Difference between (6) and Solar Noon	
10. Difference between (7) and Solar Noon	
11. Elevation angle of Sun for (8)	
12. Elevation angle of Sun for (9)	
13. Elevation angle of Sun for (10)	
14. a. Elapsed time from 150 to 80 mb. or to termination if between these levels	
b. Elapsed time from 80 to ___ mb.	
c. " " " " 80 to ___ mb.	
d. " " " " 80 to ___ mb.	
e. " " " " 80 to ___ mb.	
15. a. Ascensional rate corresponding to (14a)	
b. " " " " (14b)	
c. " " " " (14c)	
d. " " " " (14d)	
e. " " " " (14e)	

PUNCHED CARD No. 5

CODED MESSAGE FOR TRANSMISSION

PUNCHED CARD No. 4

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
DDhhh	*Altitude (gpm)	Temperature (°C)
TT1d1d1T4	*Relative Humidity (%)	*Dew Point (°C)
Ddd11	Direction (degrees) Wind	Speed (mps)

*Omitted above 200 mbs

LEGEND FOR PLOTTED CURVES

PA—Pressure-Altitude (pressure/altitude overlay)

T—Temperature (°C) RH—Relative Humidity (%)

Drawn by R P O Davis Jr

Verified by D P Clements

Inspected by

DATE AND RELEASE TIME

	Year	Month	Day	Time
90 Min Prior	1962	JUL	29	[illegible]
GCT	1962	JUL	29	[illegible]

Radiosonde No. [illegible] Ascension No. [illegible]

Station

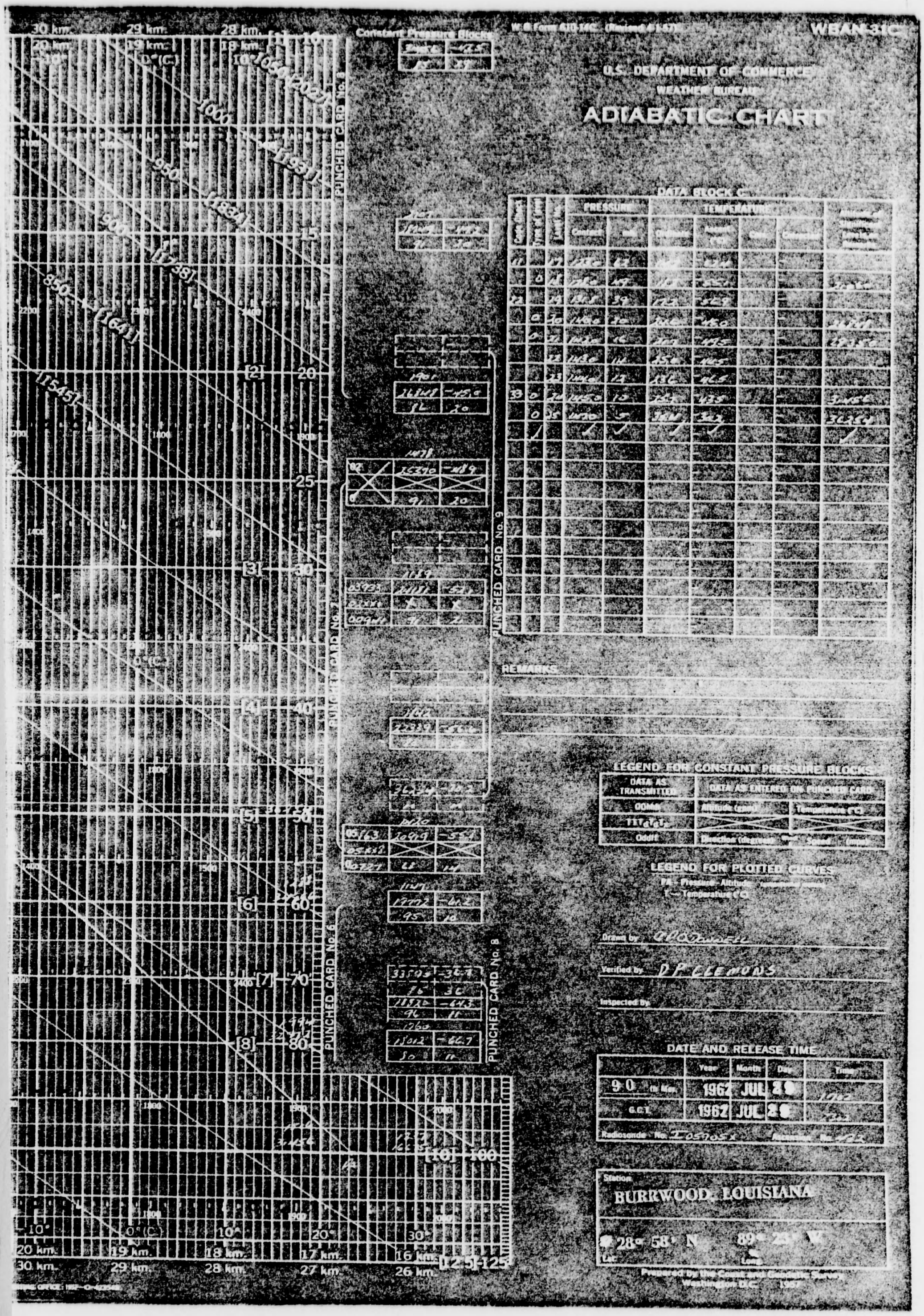
BURRWOOD, LOUISIANA

28° 58' N 89° 23' W

Lat. Long.

Prepared by the Coast and Geodetic Survey
Washington, D. C. 1957

GPO 16 — O-485886


WBAN 3-1C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK C
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
LEGEND FOR PLOTTED CURVES
Drawn by
Verified by D P CLEMONS
Inspected by
DATE AND RELEASE TIME
Year
Month
Day
Time
G.C.T.
1962
JUL
Radiosonde No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89°
Lat.
Long.
PUNCHED CARD No. 9
PUNCHED CARD No. 7
PUNCHED CARD No. 6
PUNCHED CARD No. 8
30 km.
29 km.
28 km.
27 km.
26 km.
20 km.
19 km.
18 km.
17 km.
16 km.
0°(C)
-125
-100
-70
-60
-50
-40
-30
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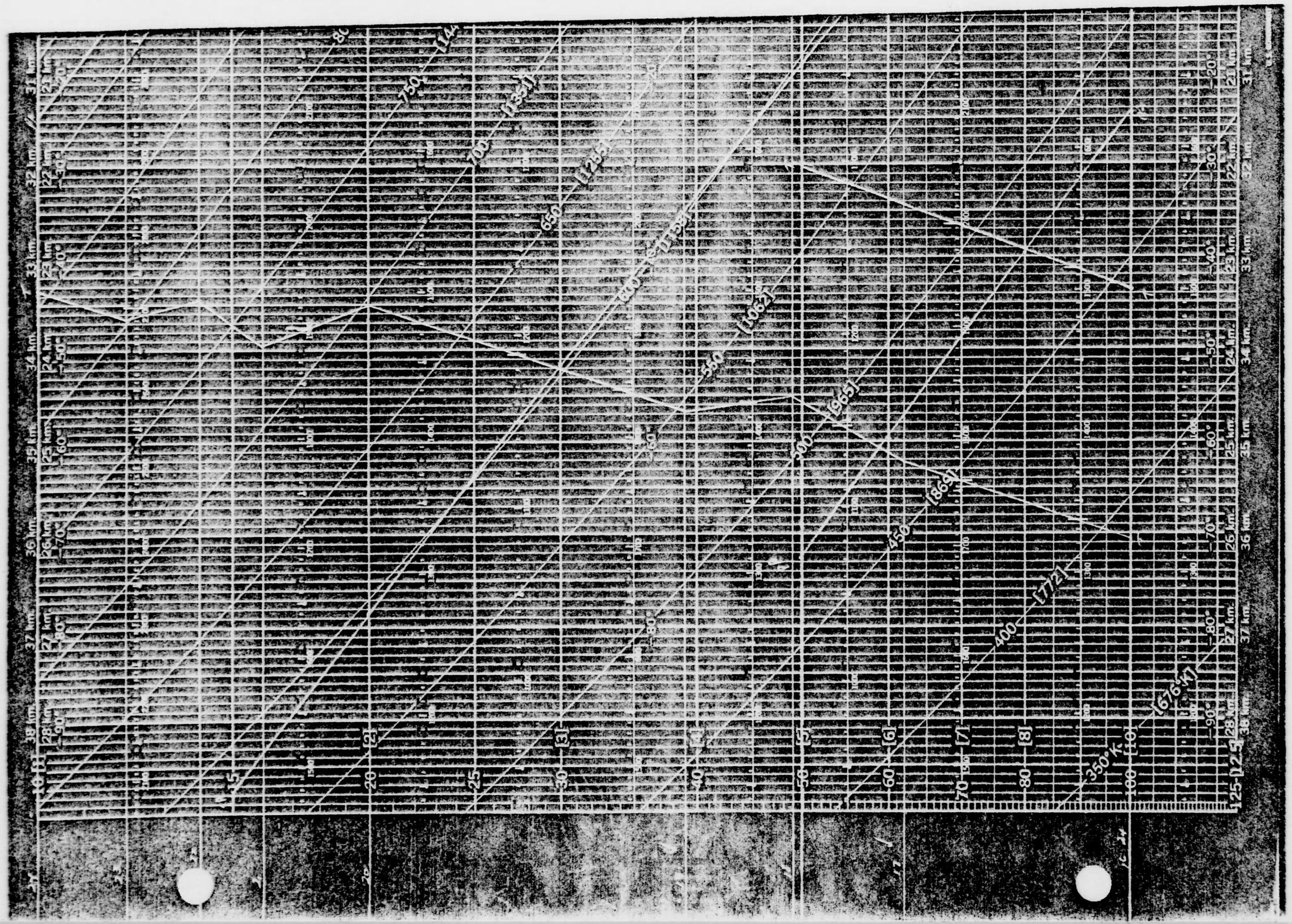
80
90
100
125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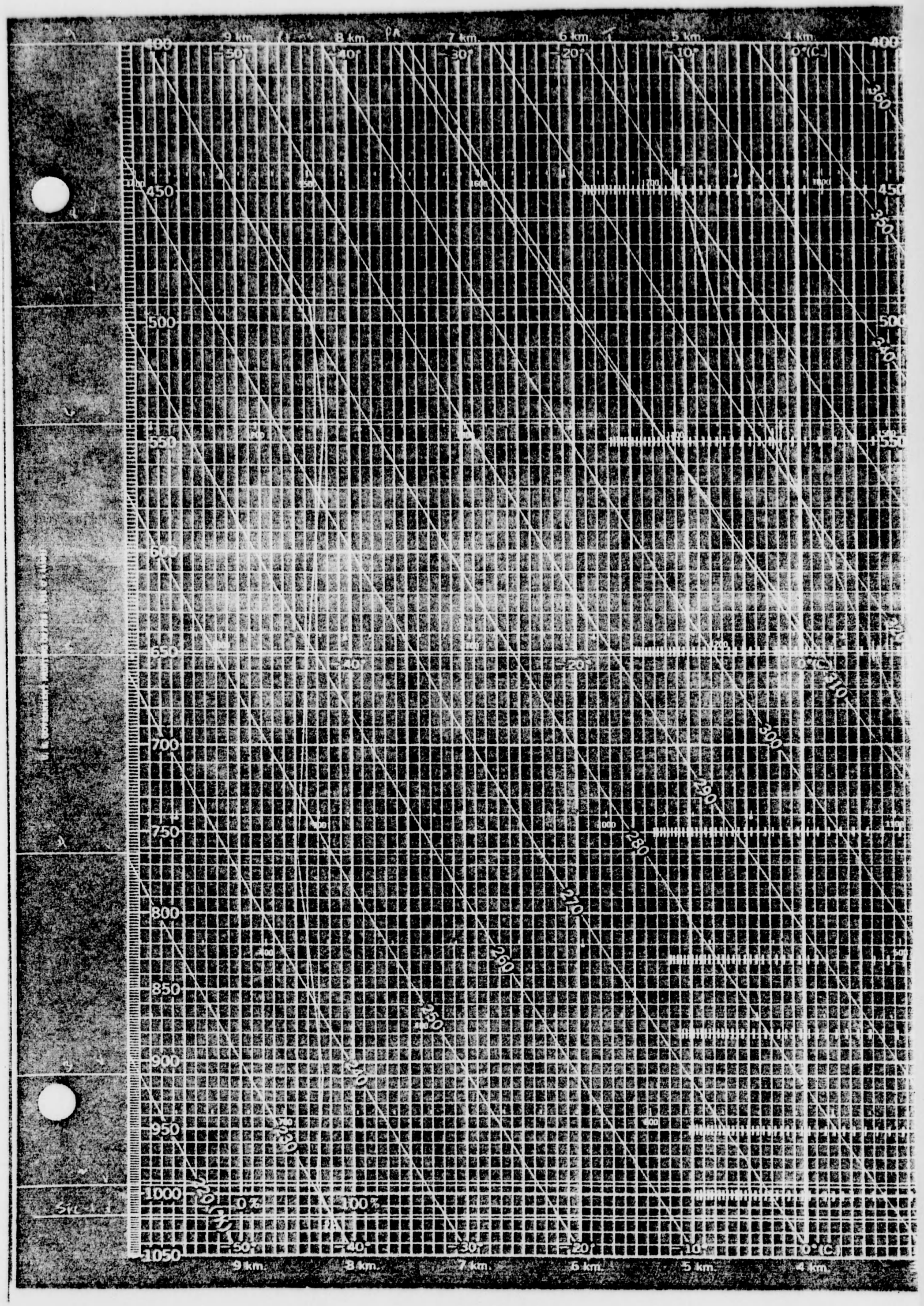

9 km
8 km
7 km
6 km
5 km
4 km
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
-50
-40
-30
-20
-10
0°(C)
0%
100%

W B Form 610-1MA (Revised 4-1-57) WBAN 31A

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK A

Data Block	Data Type	Line No.	PRESSURE Contact	PRESSURE Mb.	TEMPERATURE Ordinate	TEMPERATURE Actual °C	REL. HUM. Ordinate	REL. HUM. Increasing Corr. of °C %	DEW POINT °C	Altitude of Significant Levels or Remarks
00	0	1		1012		29.0		75	21.0	3
11	0	2	5.2	945	78.2	27.3	56.9	68	22.0	1720
22	0	3	11.8	910	69.5	22.—	70.8	72	16.9	9540
33		4	73.0	76.1	65.5	18.6	68.5	35	4.3	
		5	53.0	65.2	61.4	16.—	62.1	61		
66	4	6	41.00	642	55.0	-3.0	76.0	78	-6.3	5300
77		7	30.8	615	54.7	-7.3	62.2	60	-13.5	
88		8	53.0	611	57.3	-9.4	5.0	24	-21.5	
	9	9	60.4	480	46.4	-16.3	MD	(17)	MD	7658
		10								
		11								
		12								
		13								
		14								
		15								

SURFACE OBSERVATION AT RELEASE

PRESSURE Station In.	PRESSURE Station Mb.	PRESSURE Corrections Mb.	PRESSURE [illegible] Mb.	CONTACT Cal. chart	CONTACT Recorder (check)

and instrument shelter

TEMPERATURE		RELATIVE HUMIDITY	WIND	
		Water	Direction	Speed

CLOUDS AND WEATHER

1 Cu 1 Ac 10 Cs

Constant Pressure Blocks

80 522	7658	-16.2
(6173	(57)	MD
0 0119	11	10
6730	-10.5
(51)	X
9	8
50 543	5502	-6.7
5618	68	-11.6
0 1414	35	8
5180	-1.6
77	X
33	3
50	X	X
5360	4.2
57	X
12	7
20 05	5321	-2.9
0 0 8 4	57	4.7
0 0 8 4	71	2
2690	13.2
53	X
57	2
2103	11.2
57	X
188	1
85 501	1451	15.8
1012	65	7.3
02002	198	4
1214	2117
72	X
239	2
6700	25.0
70	X
233	2
0 2359	225	8
1077	29.6
72	24.4
24	5

PUNCHED CARD No. 4

BASELINE CHECK READINGS

Time GCT	TEMPERATURE Ordinate	Dry	Wet
1640	71.8	30.0	25.5 °C

RELATIVE HUMIDITY 45

Ordinate	Reab %	Dew %	Psychrometer Ice	Psychrometer Water
81.9	69			70

CODED MESSAGE FOR TRANSMISSION

22	1050	25019	22019	65515
6121	07002	70056	07019	08024
5033	51011	04033	40511	10033
09019	07251	71008	07512	21511
44913	03619	72058	07513	21511
55924	11047	07047	15513	20515
60822				
70707	92847	27047	11513	20515
80922				
88999	77999			

REMARKS

PUNCHED CARD No. 3

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
00hhh	Altitude (gpm)	Temperature (°C)
TT $T_d T_d$	Relative Humidity (%)	Dew Point (°C)
0ddff	Direction (degrees)	Speed (mph)

LEGEND FOR PLOTTED CURVES

PA – Pressure Altitude (Geopotential Height)
T — Temperature (°C) RH — Relative Humidity (%)

Drawn by P. Peters

Verified by

Inspected by

PUNCHED CARD No. 2

DATE AND RELEASE TIME

	Year	Month	Day	Time
90 Basic	1962	JUL	30	21 42
GCT	1962	JUL	30	21 42

Radiosonde No. 74 [illegible] Reflector No. 74

PUNCHED CARD No. 1

Station
BURRWOOD, LOUISIANA

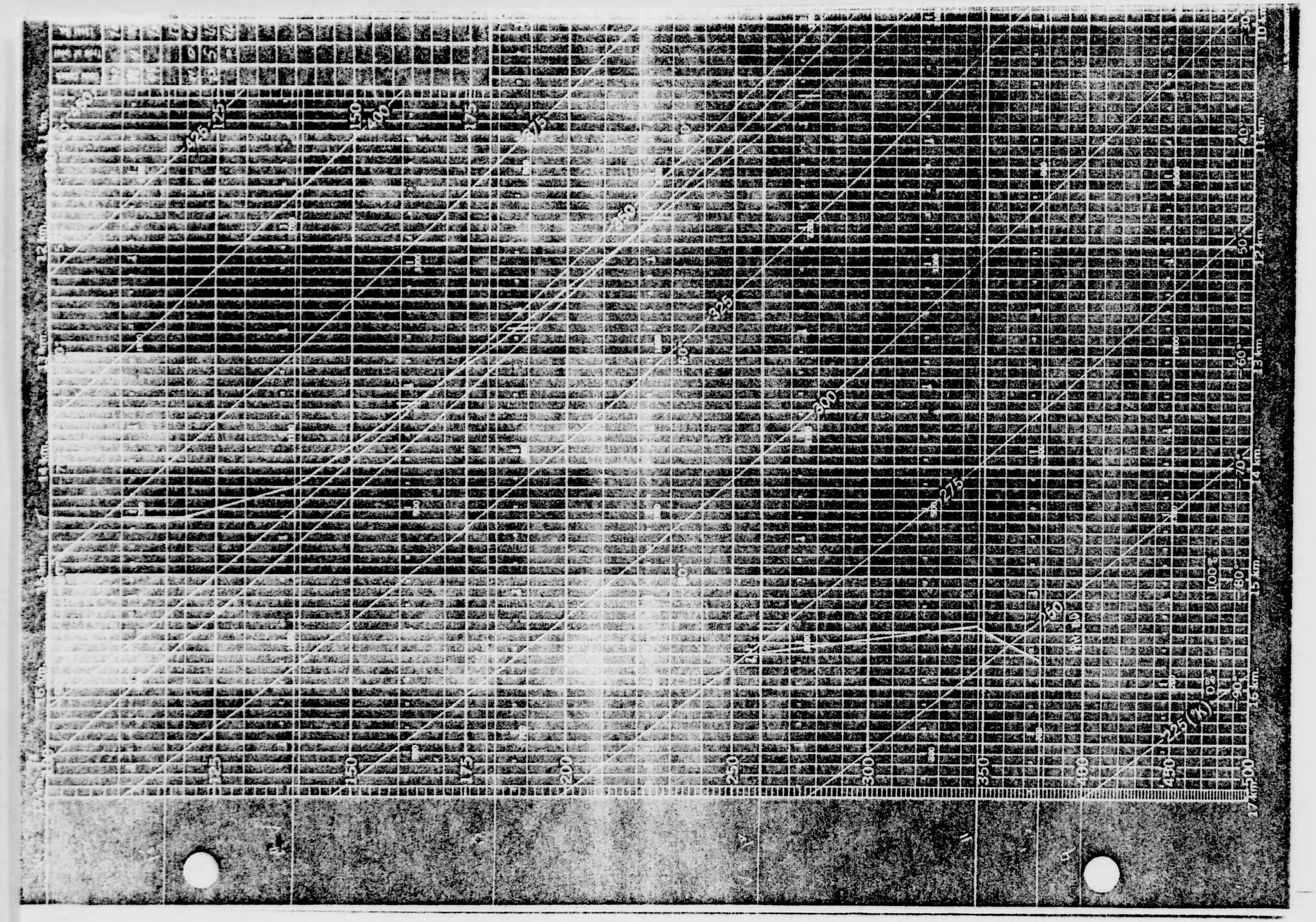
28° 58' N 89° 23' W

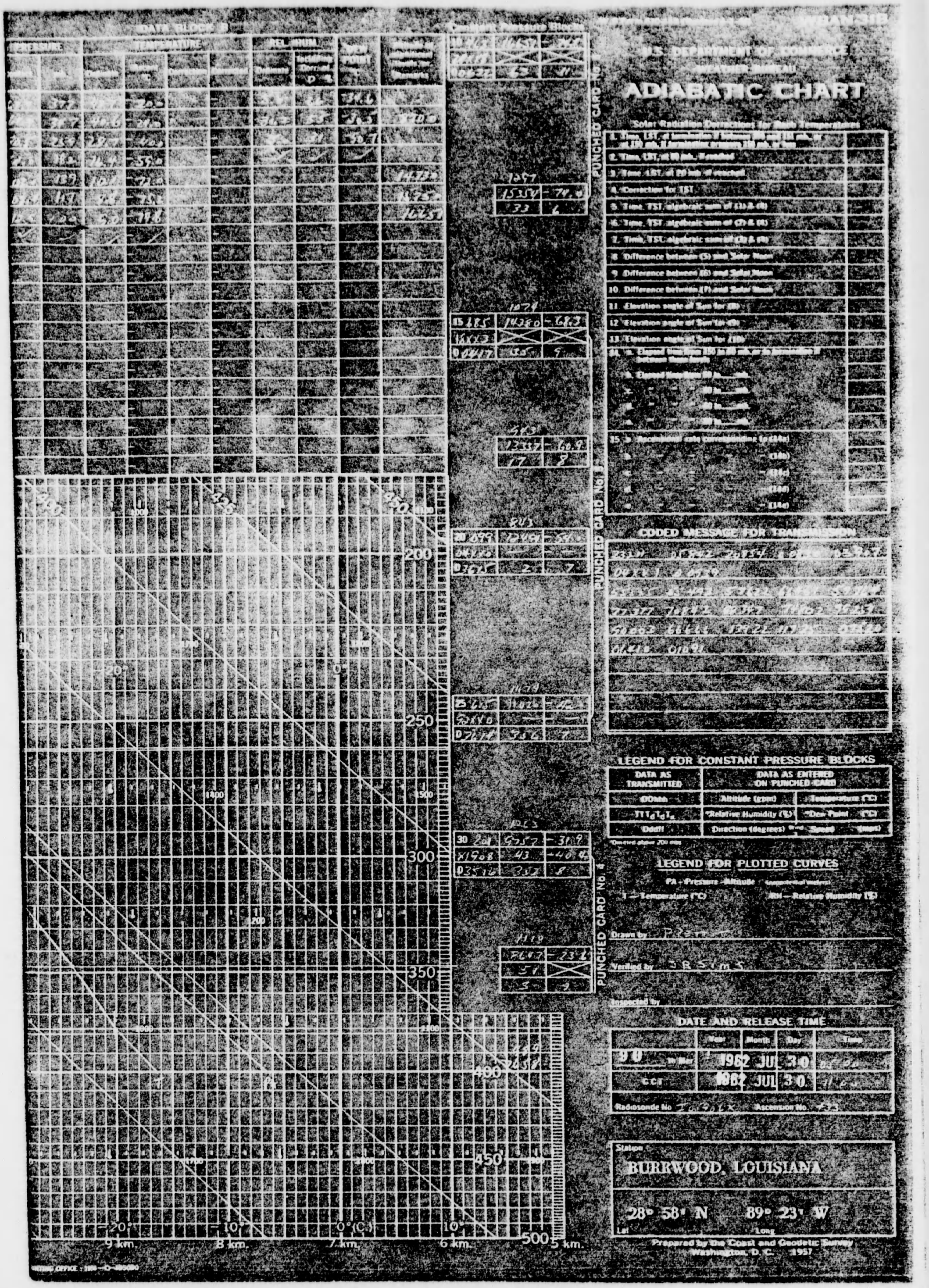
Prepared by the Upper Air Branch, National Weather Records Center, Asheville, N.C.
Published by the Upper Air Section, Forecast Services Division, Weather Bureau, Washington, D.C.

600 650 700 750 800 850 900 950 1000 1050

10 20 30 40

2 km. 1 km. MSL




PUNCHED CARD No. 1
PUNCHED CARD No. 2
PUNCHED CARD No. 3
PUNCHED CARD No. 4
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
Solar Radiation Correction for Dew Temperature
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
Altitude (gpm)
Temperature (°C)
Relative Humidity (%)
Dew Point (°C)
Direction (degrees)
Speed (knots)
LEGEND FOR PLOTTED CURVES
PA—Pressure Altitude
T—Temperature (°C)
RH—Relative Humidity (%)
Drawn by
Verified by
Inspected by
DATE AND RELEASE TIME
Year
Month
Day
Time
1962 JUL 30
Radiosonde No.
Ascension No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat
Long
Prepared by the Coast and Geodetic Survey
Washington, D. C. 1957
200
250
300
350
400
450
500
1400
1500
-20°
-10°
0° (C.)
10°
9 km.
8 km.
7 km.
6 km.
5 km.

DATA BLOCK A

Data Block	Time in Minutes	Level No.	PRESSURE Contact	PRESSURE Mb.	TEMPERATURE Ordinate	TEMPERATURE Ascent °C	REL. HUM. Ordinate	REL. HUM. Including Corr. of	DEW POINT °C	Altitude of Significant Levels or Remarks
DD	0	1								
		2								
		3								
		4								
		5								
		6								
		7								
		8								
		9								
		10								
		11								
		12								
		13								
		14								
		15								

SURFACE OBSERVATION AT RELEASE

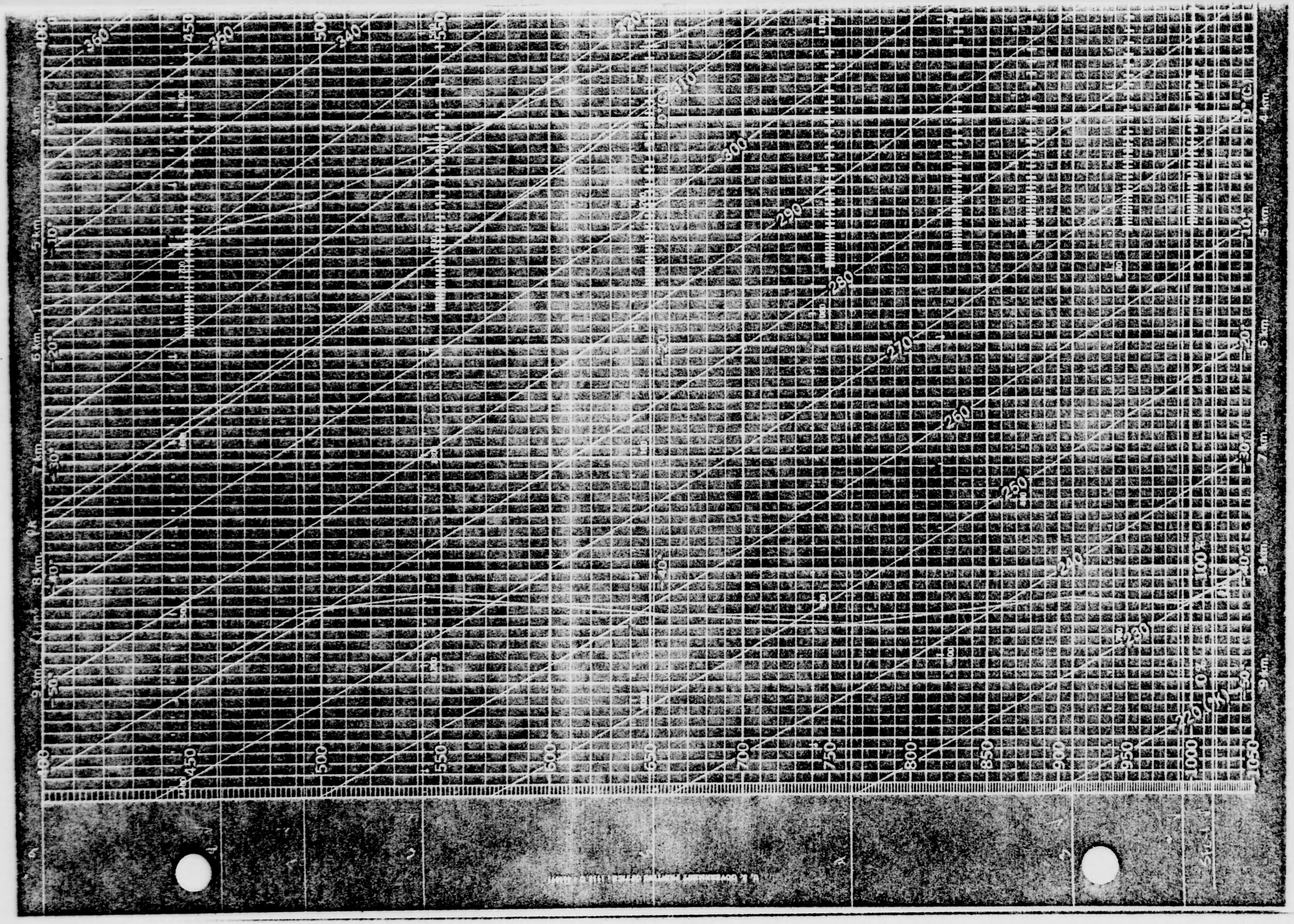
PRESSURE Station Inches	PRESSURE Station Mb.	°Correction Mb.	at Shelter Mb.	CONTACT Cal. chamb.	CONTACT Recorder reading

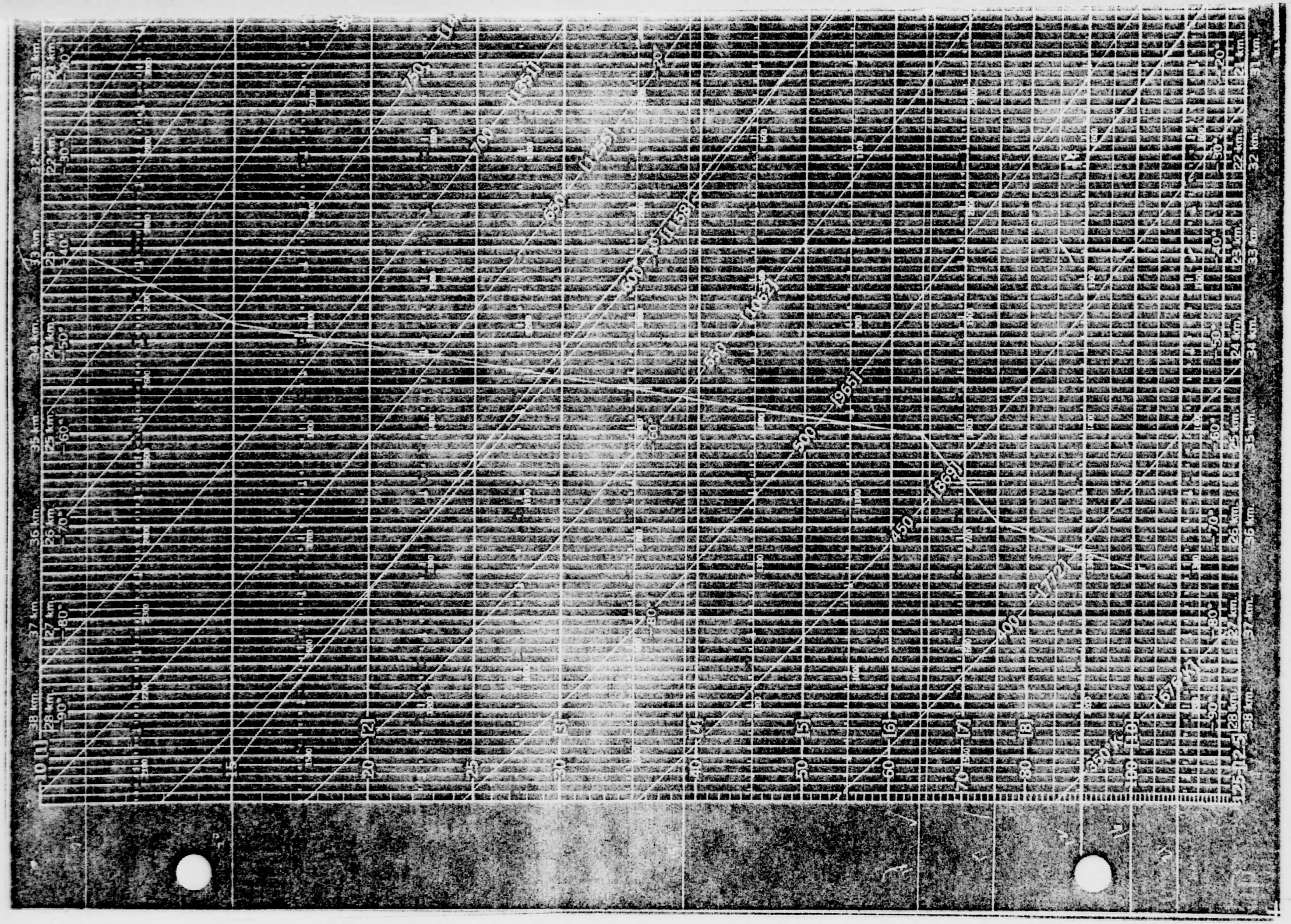
TEMPERATURE Dry	TEMPERATURE Wet	RELATIVE HUMIDITY	WIND	

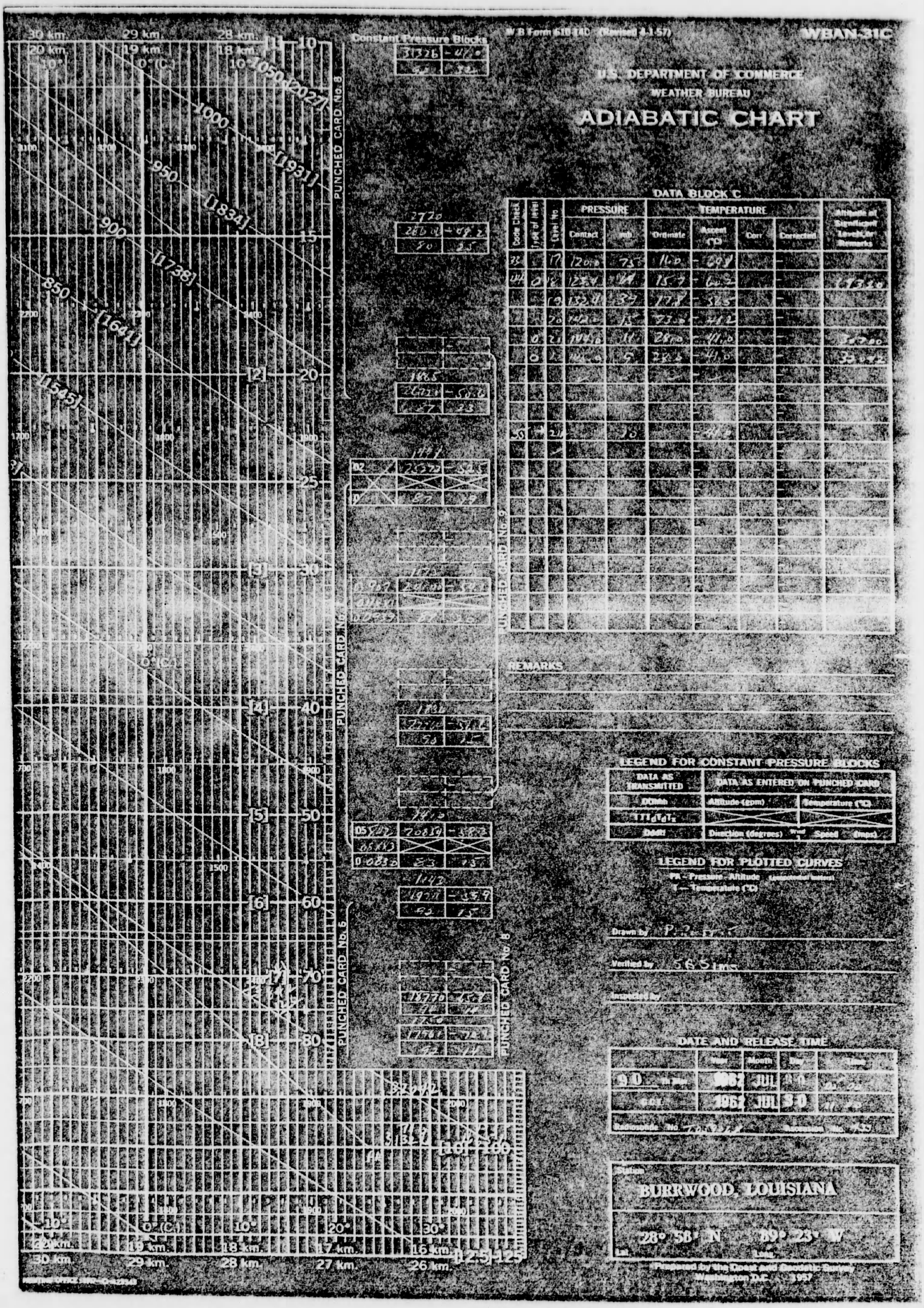
CLOUDS AND WEATHER

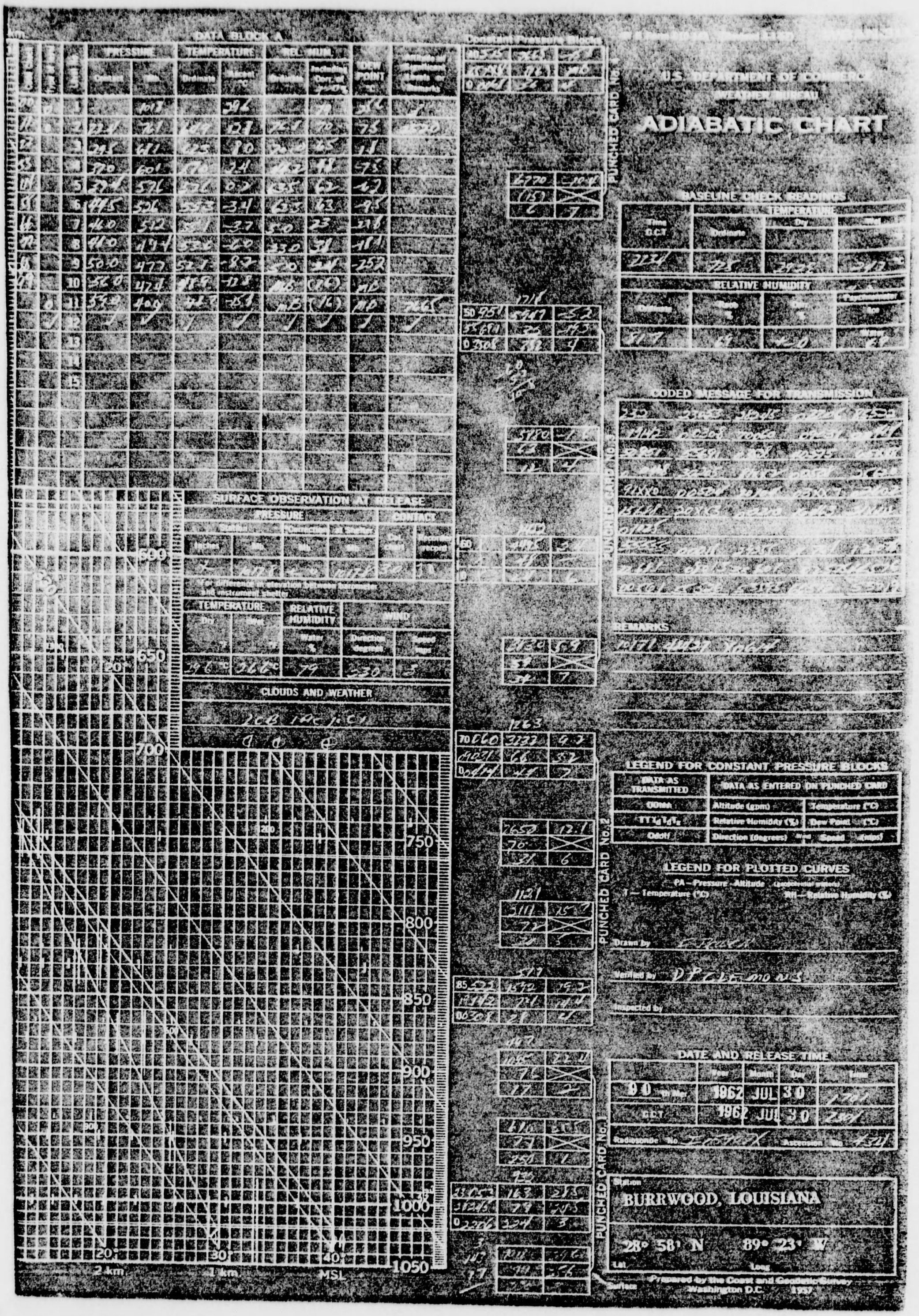
Constant Pressure Blocks

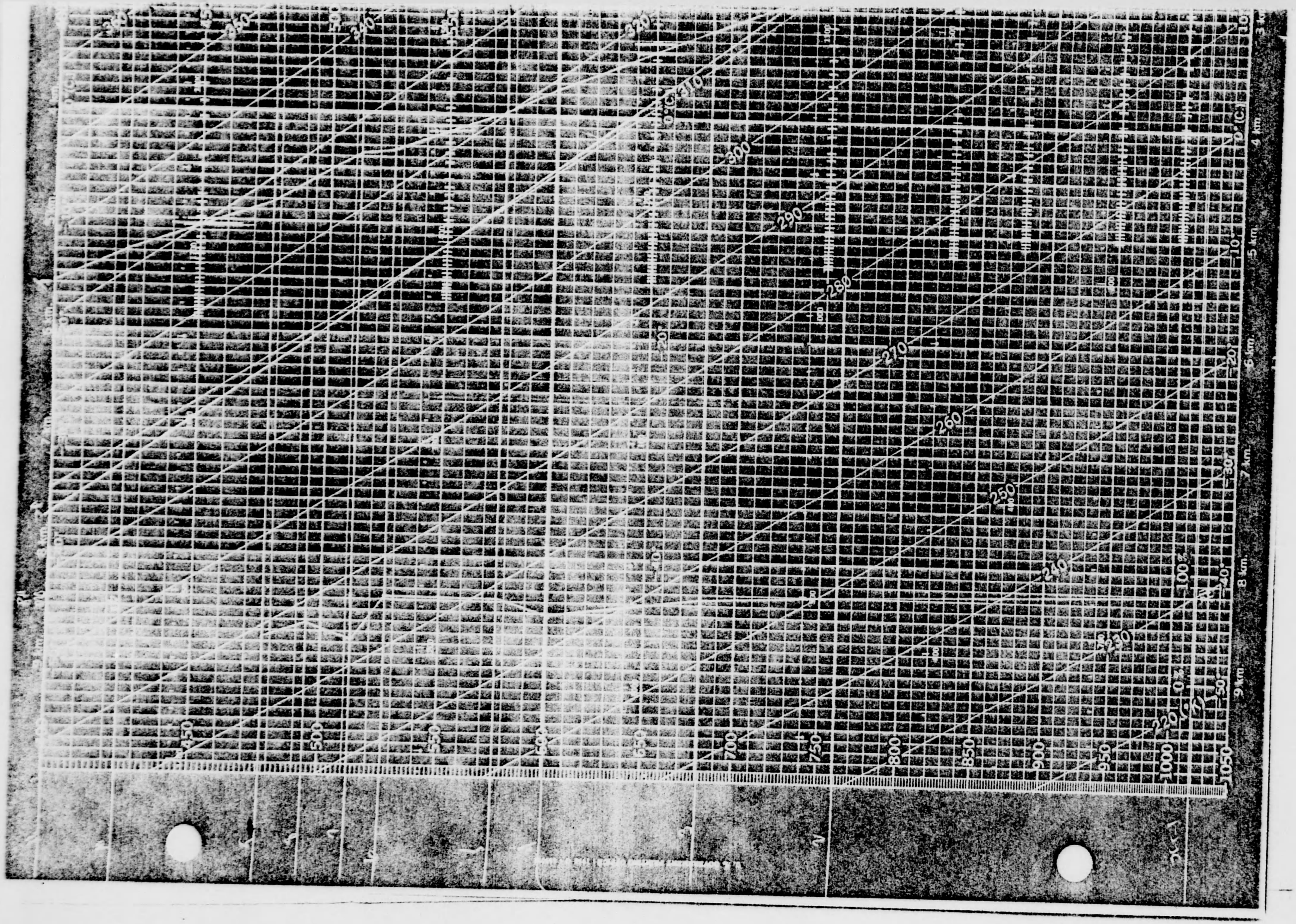
40		

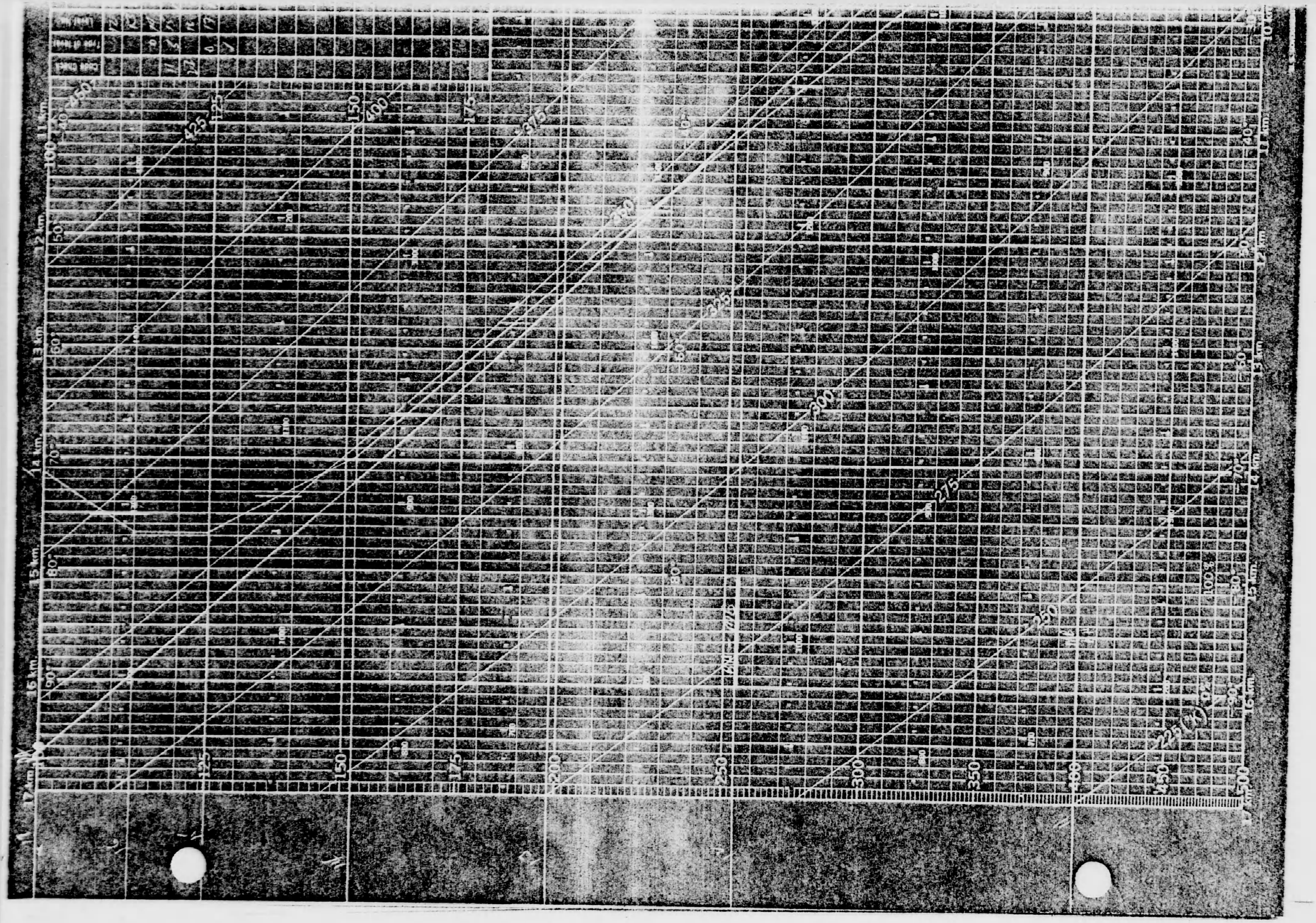





W B Form 610-14C (Revised 4-1-57)
WBAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
Constant Pressure Blocks
DATA BLOCK C
PRESSURE
TEMPERATURE
Contact
mb
Ordinate
Ascent (°C)
Corr
Corrected
Altitude of Significant Inversion Remarks
PUNCHED CARD No. 6
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
Altitude (gpm)
Temperature (°C)
Direction (degrees)
Speed (knots)
LEGEND FOR PLOTTED CURVES
Pa — Pressure Altitude
T — Temperature (°C)
Drawn by
Verified by
Inspected by
DATE AND RELEASE TIME
Hour
Month
Day
Time
JUL
Radiosonde No.
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat.
Long.
Prepared by the Upper Air Research Section
Washington, D.C.
1957
30 km
29 km
28 km
27 km
26 km
20 km
19 km
18 km
17 km
16 km
0° (C)
10°
20°
30°
1000
950
900
850
700
[1]
[2]
[3]
[4]
[5]
[6]
[8]
[12.5]
[15]
10
20
25
30
40
50
60
70
80
100
125


DATA BLOCK A
PRESSURE
TEMPERATURE
REL. HUMIDITY
DEW POINT °C
Dewpoint Depression Block
PUNCHED CARD No. 2
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
BASELINE CHECK READINGS
TEMPERATURE
RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
REMARKS
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
WIND
CLOUDS AND WEATHER
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
Altitude (gpm)
Temperature (°C)
Relative Humidity (%)
Dew Point (°C)
Direction (Degrees)
Speed (Knots)
LEGEND FOR PLOTTED CURVES
PA — Pressure Altitude
T — Temperature (°C)
Drawn by
Verified by
Inspected by
PUNCHED CARD No. 1
DATE AND RELEASE TIME
GCT
Radiosonde No.
Accession No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat.
Long.
Prepared by the Coast and Geodetic Survey
Washington D.C.
1957
1000
950
900
850
800
750
700
650
600
20
30
40
MSL
1050





WBAN-31B

WB Form 610-31B (Revised 9-1-58)

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

PUNCHED CARD No. 1

DATA BLOCK B

PRESSURE		TEMPERATURE				REL. HUM.		DEW POINT °C	Change of significant levels or Remarks
mbar	mm.	Ordinate	Ascent °C	Correction	Corrected	Ordinate	Including Corr. of %		
1000	751	23.2	-0.1		-				
950	712	19.2	-0.2		-				
900	675	14.0	-0.5		-				1200
850	638	8.5	-0.7		-				1536
800	600	3.3	-0.7		-				
750	563	-1.7	-0.7		-				1650
700	525	-6.7	-0.7		-				

Constant Pressure Blocks

1046	1230	-11.4
1XXX	XXXX	XXXX
0 2235	1852	13
1236	-0.7	
55	7	
1567	1.5	
0 2302	1.4	
1567	-1.9	
0 2508	1.1	
1567	-1.9	
0 2508	1.1	
1567	-1.9	
0 2508	1.1	

PUNCHED CARD No. 2

Solar Radiation Corrections for Radio Temperatures

1. Time, LST, at termination if between 350 and 150 mb., or at 150 mb. if terminating pressure 150 mb. or less	
2. Time, LST, at 60 mb., if reached	
3. Time, LST, at 20 mb., if reached	
4. Correction for TST	
5. Time, TST, algebraic sum of (1) & (4)	
6. Time, TST, algebraic sum of (2) & (4)	
7. Time, TST, algebraic sum of (3) & (4)	
8. Difference between (5) and Solar Noon	
9. Difference between (6) and Solar Noon	
10. Difference between (7) and Solar Noon	
11. Elevation angle of Sun for (8)	
12. Elevation angle of Sun for (9)	
13. Elevation angle of Sun for (10)	
14. a. Elapsed time from 150 to 60 mb. or to termination if between these levels	
b. Elapsed time from 60 to ___ mb.	
c. Elapsed time from ___ to ___ mb.	
d. Elapsed time from ___ to ___ mb.	
15. a. Appropriate multiple corresponding to (14a)	
b. (14b)	
c. (14c)	
d. (14d)	

CODED MESSAGE FOR TRANSMISSION

PUNCHED CARD No. 3

LEGEND FOR CONSTANT PRESSURE BLOCKS

DATA AS TRANSMITTED	DATA AS ENTERED ON PUNCHED CARD	
Column	Altitude (Hmb)	Temperature (°C)
111 XXX	Relative Humidity (%)	Dew Point (°C)
Other	Direction (degrees)	Speed (kts)

LEGEND FOR PLOTTED CURVES

T — Temperature (°C) RH — Relative Humidity (%)

Drawn by F Baird

Verified by D Dickerson

Inspected by

DATE AND RELEASE TIME

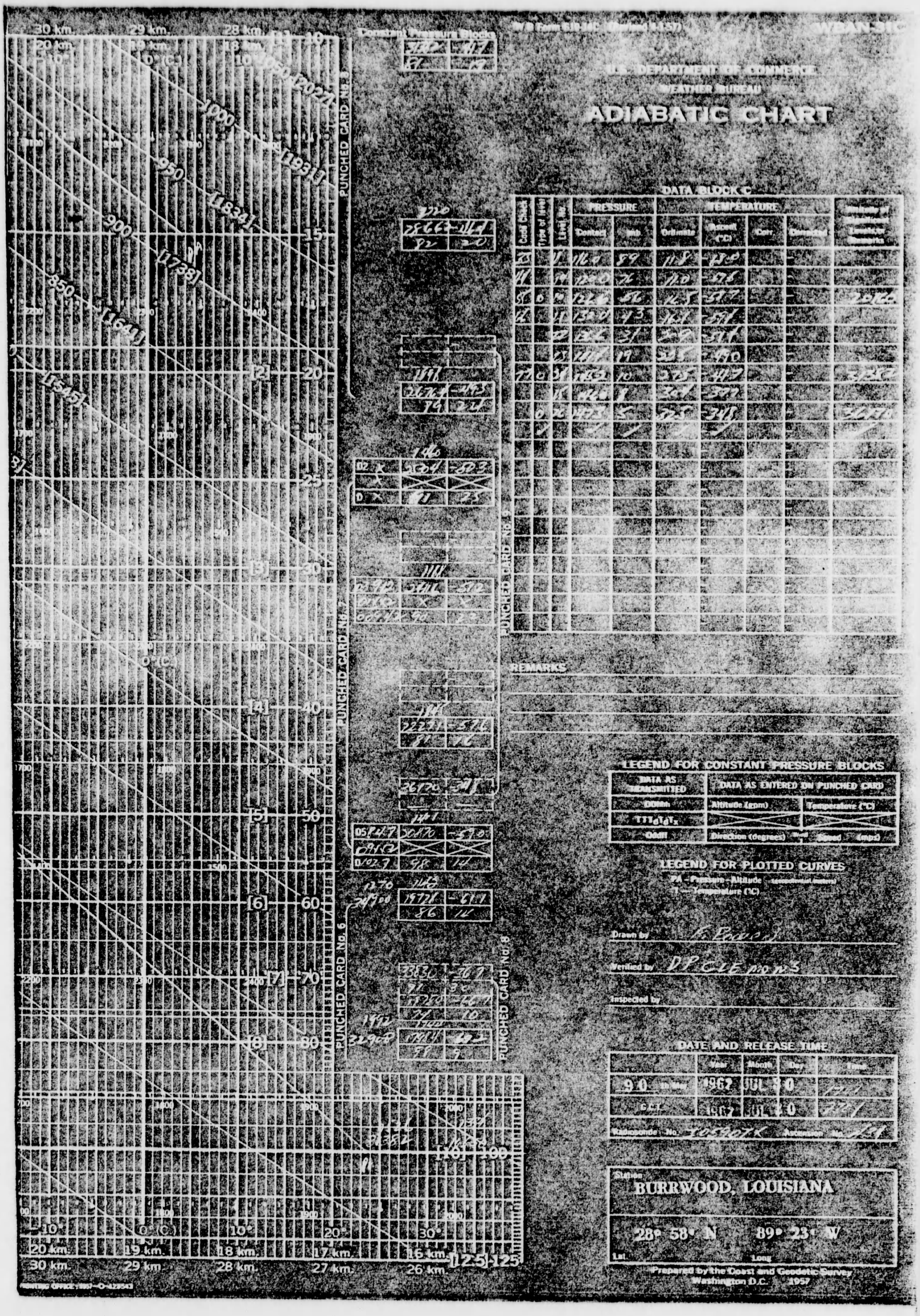
	Year	Month	Day	Time
Flight	1962	JUL	20	
Sent	1862	JUL	20	

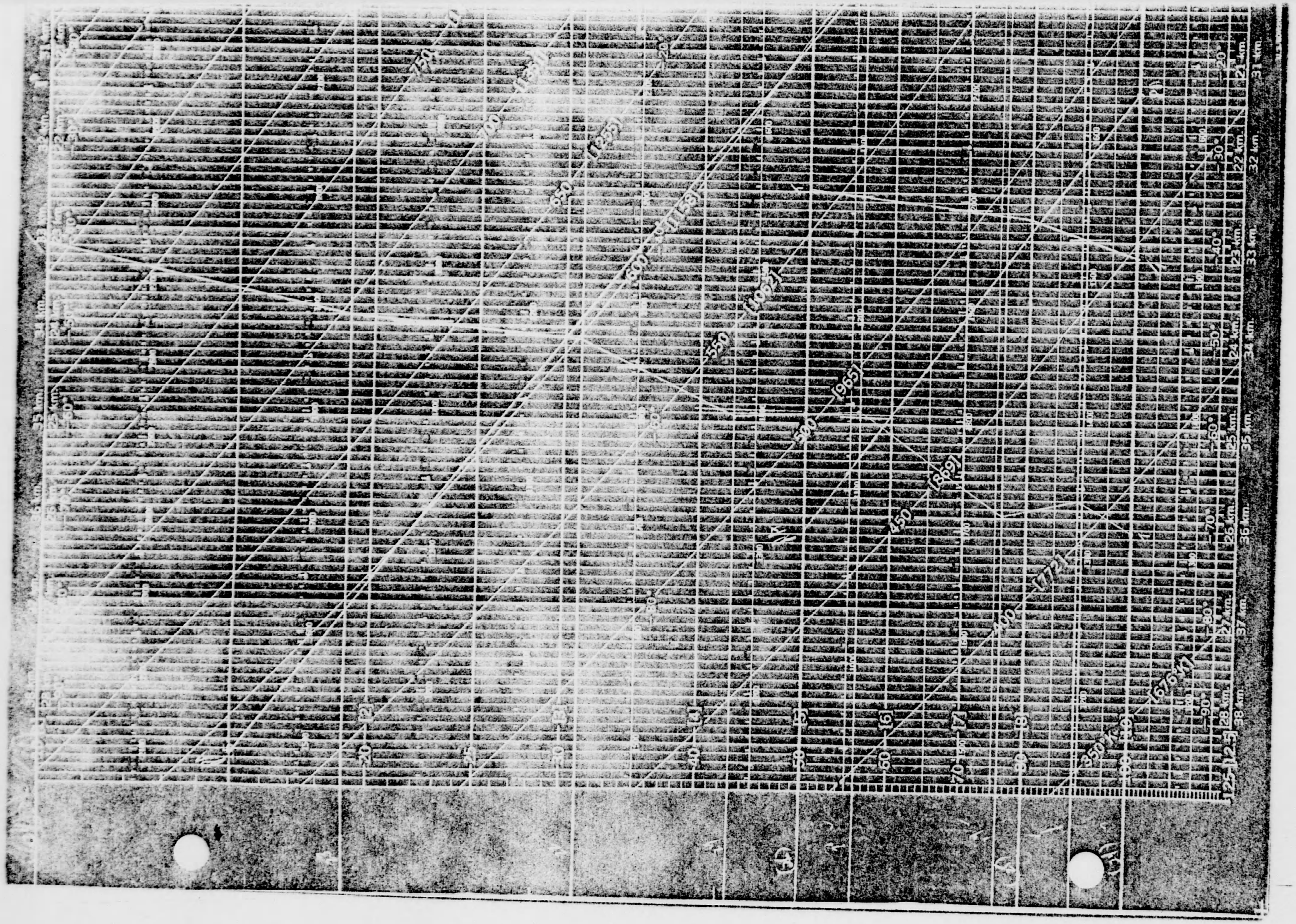
Radiosonde No. [illegible] Recognition No. [illegible]

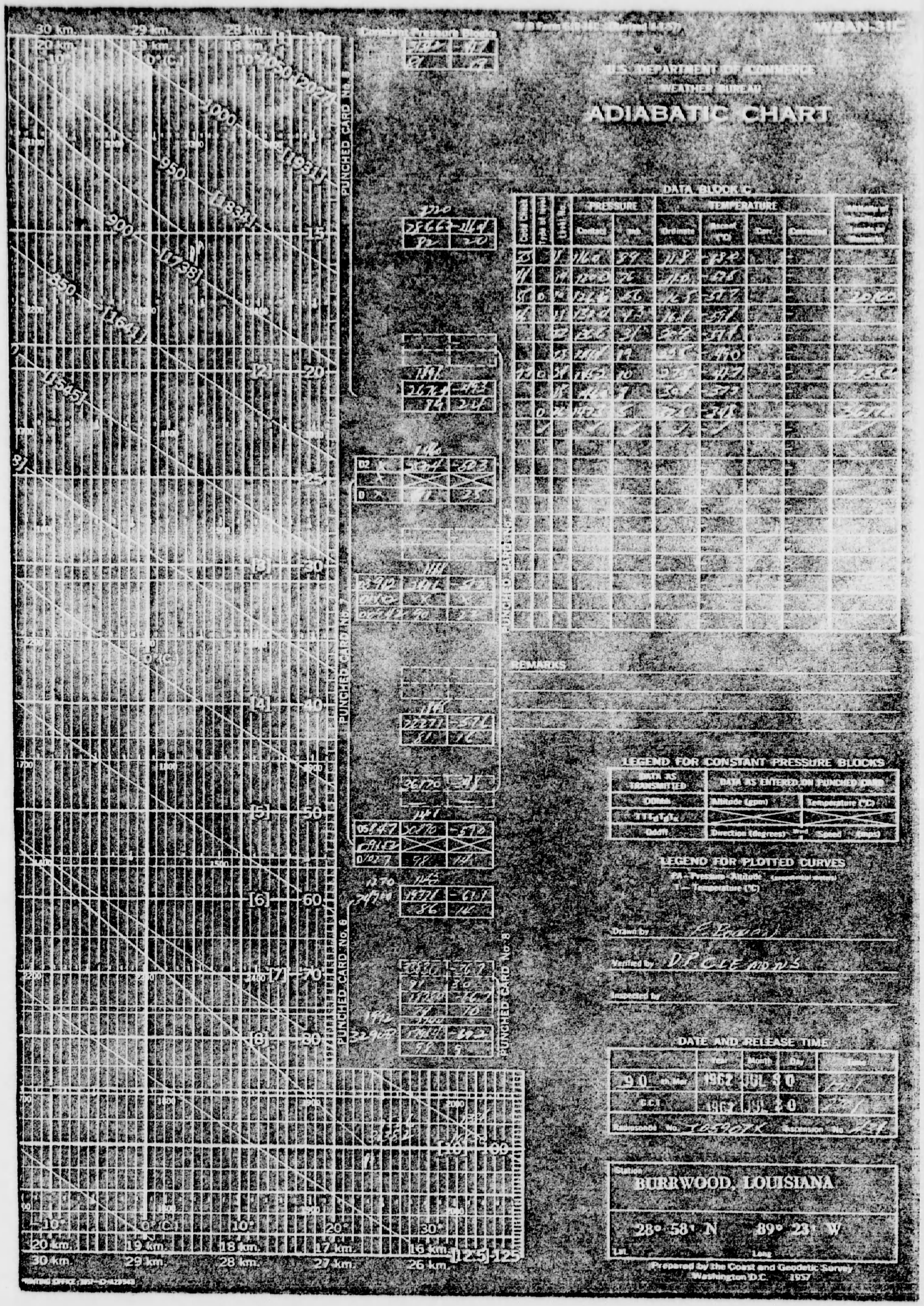
Station
BURRWOOD, LOUISIANA

28° 58' N 89° 23' W
Lat. Long.

Prepared by the Coast and Geodetic Survey
Washington, D. C. 1957


ADIABATIC CHART
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
DATA BLOCK C
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
DATA AS ENTERED ON PUNCHED CARD
Down
Altitude (gpm)
Temperature (°C)
Odd#
Direction (degrees)
Speed (mps)
LEGEND FOR PLOTTED CURVES
Drawn by
Verified by
Inspected by
DATE AND RELEASE TIME
Year
Month
Day
Time
Radiosonde No.
Ascension No.
Station
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat.
Long
Prepared by the Coast and Geodetic Survey
Washington D.C. 1957
PUNCHED CARD No. 5
PUNCHED CARD No. 6
PUNCHED CARD No. 7
PUNCHED CARD No. 8
30 km.
29 km.
28 km.
27 km.
26 km.
20 km.
19 km.
18 km.
17 km.
16 km.




WBAN Sta
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK C
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
Drawn by
Verified by
Issued by
DATE AND RELEASE TIME
Year
Month
Day
BURRWOOD, LOUISIANA
28° 58' N
89° 23' W
Lat.
Long.
Prepared by the Coast and Geodetic Survey
Washington D.C.
1957
PUNCHED CARD No. 6
PUNCHED CARD No. 8
30 km.
29 km.
28 km.
27 km.
26 km.
0° C
10°
20°
30°